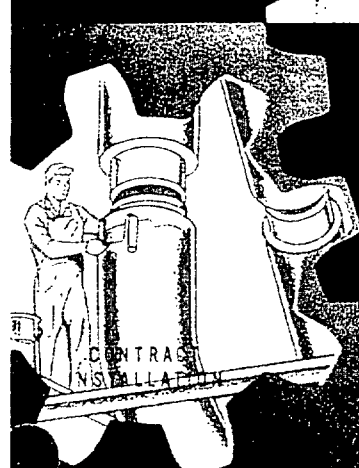
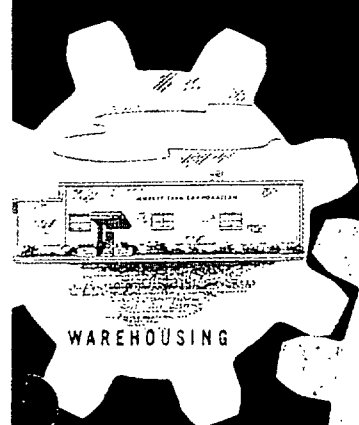
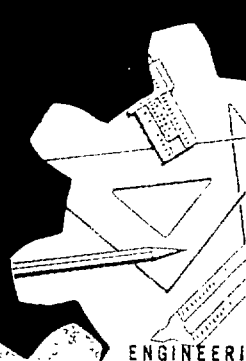
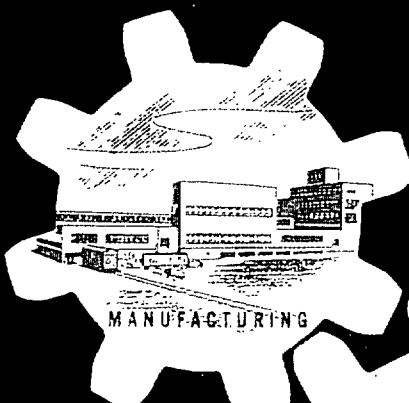


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EXHIBIT

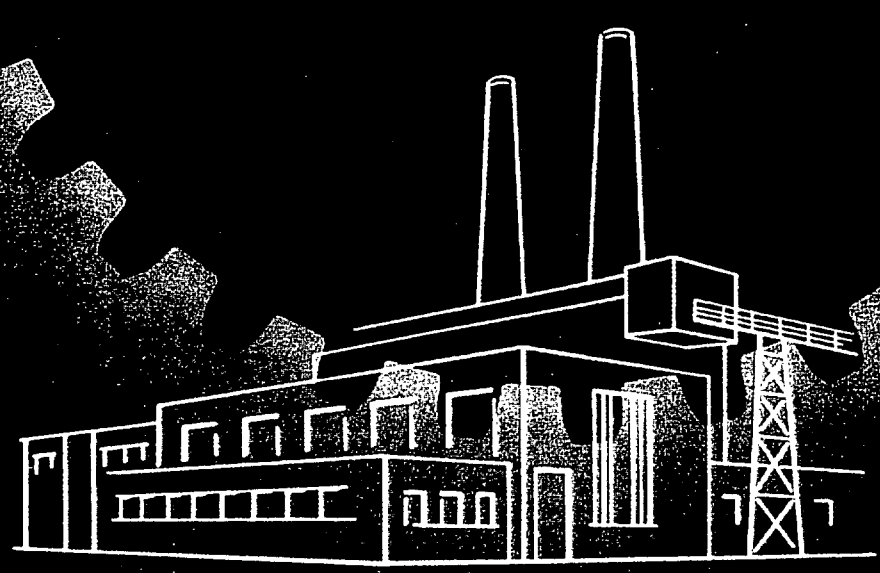
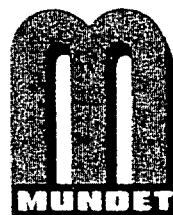
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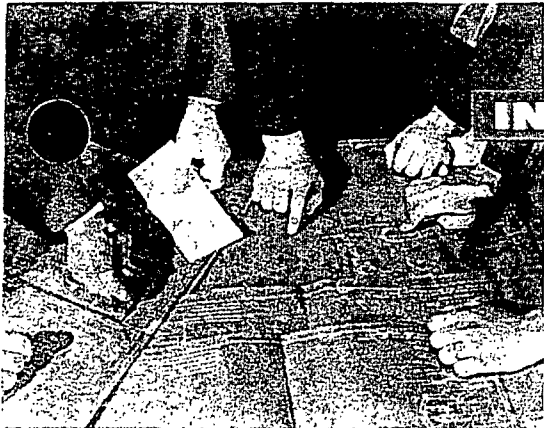


MUNDET

INTEGRATED ORGANIZATION

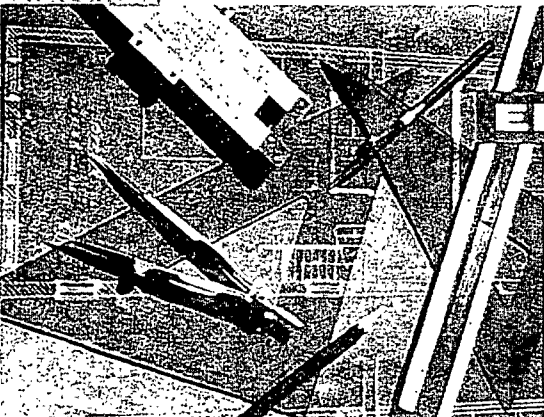
CUTS INSULATION COST





INTEGRATED ORGANIZATION

"Time is of the essence," in the construction of industrial plants, commercial and public buildings and utilities. When suppliers and contractors can cooperate to save time, and to carry out responsibilities, it is money in the owner's pocket. All of this is answered through Mundet Integrated Service. Under the Mundet method, all details from initial recommendation to materials supply and completed application are centered under one responsible management, avoiding confusion of divided responsibility. Whether the project be large or small, Mundet serving as the insulation contractor, is qualified to provide competent engineering... accurate cost estimating based on thorough understanding of the plans and specifications... prompt delivery of materials... qualified contract supervision and workmanship... all leading to the earliest practical completion of the project.



ENGINEERING

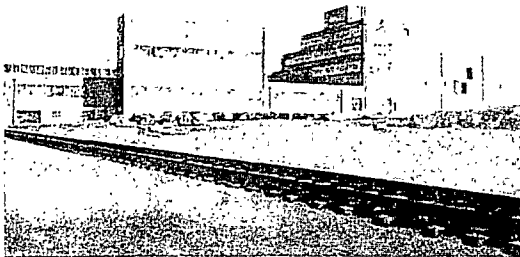
Selection of proper materials has become more complex; performance penalties for improper choice and misuse of materials have increased immeasurably. With the development of new materials, has come an improvement in manufacturing methods and application practices. Qualified insulation engineers, strategically located at various Mundet branches and distributor-applicator locations, are available to assist in the selection of Mundet insulating products designed for temperatures ranging from -300°F to $+1900^{\circ}\text{F}$. In addition to preparing material recommendations, these men are also trained in the application of the materials. Such items as flashings, insulation supports, expansion joints, vapor barriers and weatherproofing are of prime importance to the success of the finished job. Proper selection of materials, with modern application techniques, will insure long lasting heat conservation and control.



ESTIMATING

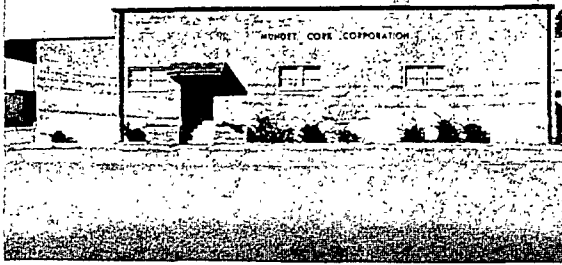
To facilitate the proper application of materials, highly trained cost-estimators are located at each of the Mundet branch and distributor-applicator locations. These men provide accurate estimating, based on a thorough understanding of the plans and specifications. They are available to work closely with your supervisory engineering staff, to make preliminary estimates or quantity takeoff from drawings, and to interpret properly the intent of the specifications. Mundet's integrated organization assures the closest association between engineering and cost estimating functions for your benefit. Whether it is estimating the cost of insulating a single heating system, or estimating for the complex piping and equipment layout of a chemical or utility plant, Mundet estimators are prepared to submit the most practical proposal, complete with drawings of important details.

MANUFACTURING

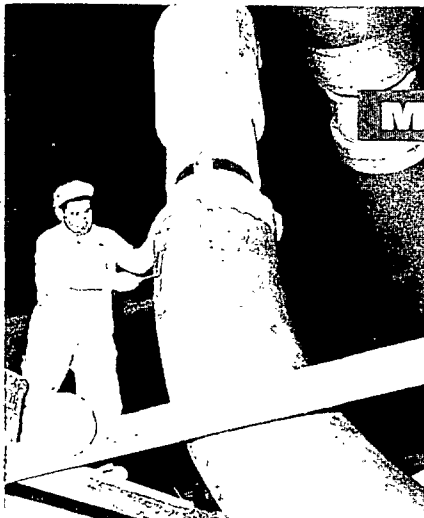


Mundet operates two modern plants (one built since World War II) for the manufacture of industrial and commercial insulations. Each of these domestic plants produces many million feet of insulation annually, in both pipe covering and blocks. "Custom molded" insulations for all industrial temperatures are manufactured under the most approved methods, incorporating recent developments in automation in precision control of product quality. To insure dependable delivery of materials... to expedite the completion of the insulation contract... Mundet's plants are located in the Metropolitan New York area, immediately adjacent to rail, truck, water and air terminals, assuring prompt shipping service to all parts of the world. This accessibility to all forms of transportation is another factor in Mundet's dependable, cost-saving service to users of industrial insulations.

BRANCH OFFICES AND WAREHOUSES



To best serve our customers, Mundet Branches maintain large stocks of insulation materials in the major industrial areas. Supplementing our own offices, we have selected distributor-applicators who are prepared to fill normal and emergency insulation needs. These organizations, with established reputations in their localities, have qualified to apply Mundet products according to our rigid company standards. Through our national network of Mundet branch offices and distributor-applicators we provide facilities that are as convenient as your telephone. This accessibility of personal contact and material supply helps to avoid delays in maintaining construction schedules... assures competent supervision of job requirements.



MUNDET CONTRACT INSTALLATIONS

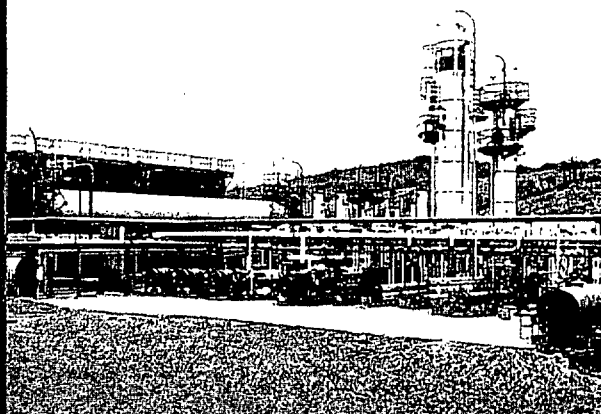
It is recognized that proper installation of insulation products is one of the most important factors in insuring a permanent, trouble-free job. To help you meet this problem most satisfactorily and at lowest cost for required performance, we provide Mundet Contract Installation to be responsible for all details from recommendations and estimates to installation. Mundet branches and distributor-applicator engineering and estimating organizations are backed up by highly trained field personnel. We are prepared to schedule all insulation work with other related crafts to insure completion of the project on schedule. Finally — you are protected by the Mundet guarantee: The Company unqualifiedly guarantees that its material and workmanship are of the best and agrees to replace, without cost to the customer, any defective material that may be chargeable to inferior quality or workmanship as indicated in its contract form.



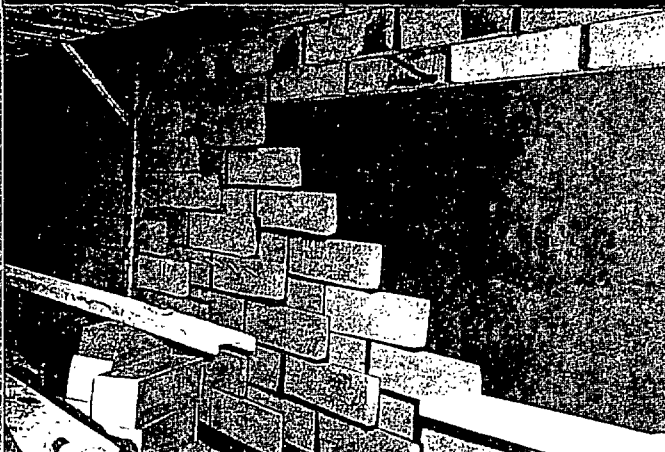
MUNDET INSULATING PRODUCTS COVER ALL TEMPERATURE RANGES AND ARE IN USE IN THE PRINCIPAL INDUSTRIES FOR MAXIMUM THERMAL CONSERVATION...

TOP VALUE IN SERVICE

...your assurance of true economy in insulation performance is obtained through purchase of the most efficient insulating material for specific job requirements, PLUS experienced and responsible contracting services.

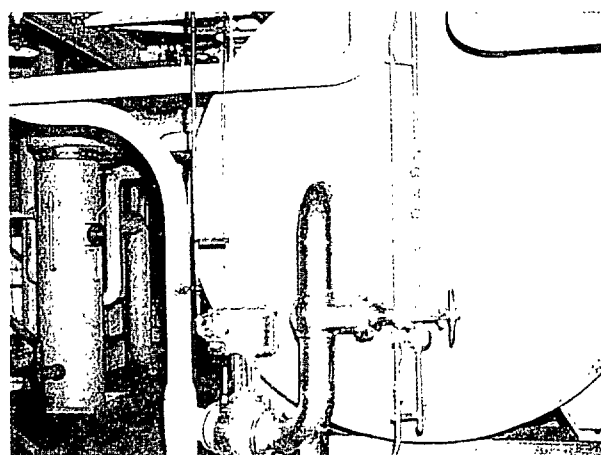


Mundet "Custom-Molded 85% Magnesia insulation with sheet finish — erected in a refinery on propane unit.

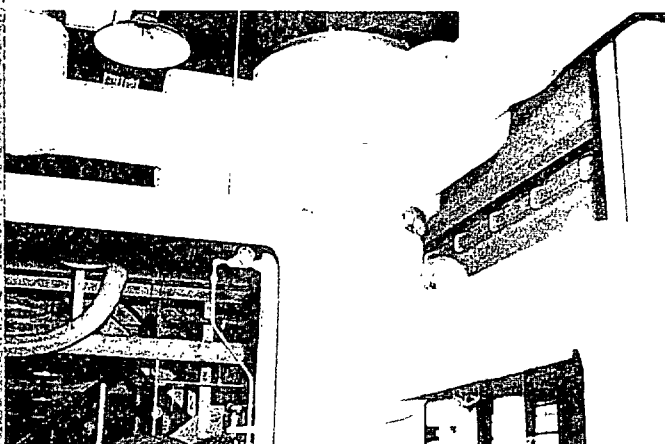


View at left is a progress picture showing the erection of Mundet Corkboard in staggered layer pattern for cold storage refrigeration.

Tank at right is insulated with Mundet 85% Magnesia blocks, with reinforced hard finish. Neatness of application, and attractive appearance of lines are characteristic of Mundet contract installations.



Mundet "custom-molded" pipe covering is the precise answer for individual requirements. The snug fitting application at left is as efficient as it is neat and attractive.



REPRESENTATIVE INSTALLATIONS

of Mundet Industrial Insulation

UTILITY

Electric Energy, Inc., Joppa, Illinois
Pennsylvania Water & Power Co., Holtwood, Pa.
Long Island Lighting Company, Mineola, L. I.
Carolina Light and Power Co., Goldsboro, N. C.
Capital Power Plant, Washington, D. C.
Dallas Light & Power Co., Dallas, Texas

REFINERY

California Oil Company, Perth Amboy, N. J.
Sinclair Oil Company, Wellsville, N. Y.
Standard Oil Co. of California, El Segundo, Calif.
Gulf Oil Company, Philadelphia, Pa.
Shell Oil Company, Deer Park, Texas
Shell Oil Company, Wood River, Illinois

CHEMICAL

Atomic Energy Commission, Oak Ridge, Tenn.
Union Carbide & Carbon Co., Marietta, Ohio
Monsanto-Mobay Chemical Co., New Martinsville, W. Va.
General Aniline & Dye Co., St. Louis, Mo.
E. I. du Pont de Nemours & Co., Kern, Indiana
Proctor & Gamble Co., Cincinnati, Ohio and Dallas, Texas

COLD STORAGE

Oscar Mayer Co., Vernon, Calif.
Swift & Company, Kansas City, Kans.
Griesedieck Bros. Brewery, St. Louis, Mo.
Anheuser-Busch Brewing Co., Newark, N. J.
Houston Packing Co., Houston, Texas

INDUSTRIAL

Bethlehem Steel Company, Sparrows Point, Md., Steel Mill
Whippany Paper Board Co., Whippany, N. J., Paper Mill
General Motors Corp., Willow Run, Mich., Manufacturing
Ford Motor Co., Nashville, Tenn., Glass Plant
American Enka Corp., Enka, N. C., Manufacturing
Melpar, Inc., (Westinghouse), Wash., D. C., Electronic Mfg.

COMMERCIAL

Hotel Statler, New York, N. Y.
Beverly Hilton Hotel, Los Angeles, Calif.
Dinkler-Plaza Hotel, Atlanta, Ga.
Ford Hospital, Detroit, Mich.
Dearborn High School, Dearborn, Mich.
Medical Towers Building, Houston, Texas

MUNDET INSULATION PRODUCTS

include "custom-molded" 85% Magnesia heat insulation and "Tri-Calite" insulation for high temperatures up to 1900°F. Also new expanded Polystyrene insulation in "custom-molded" pipe covering and blocks, and Corkboard and Cork Pipe Covering for low temperatures.

MUNDET CORK CORPORATION

Insulation Division; 7101 Tonnelle Avenue, North Bergen, New Jersey

ATLANTA
339-41 Elizabeth St. N. E.

CHICAGO
35 E. Wacker Dr
CINCINNATI 2
427 West 4th St.

NEW YORK 17
331 Madison Ave.

DETROIT 38
14401 Prairie Ave.
HOUSTON 11
6601 Supply Row
JACKSONVILLE 2, FLA.
514 E. Bay St.

KANSAS CITY 1, MO.
1210 W. 9th St.
LOS ANGELES
(Maywood): 6116 Walker Ave
NEW ORLEANS 16
315-25 N. Front St.

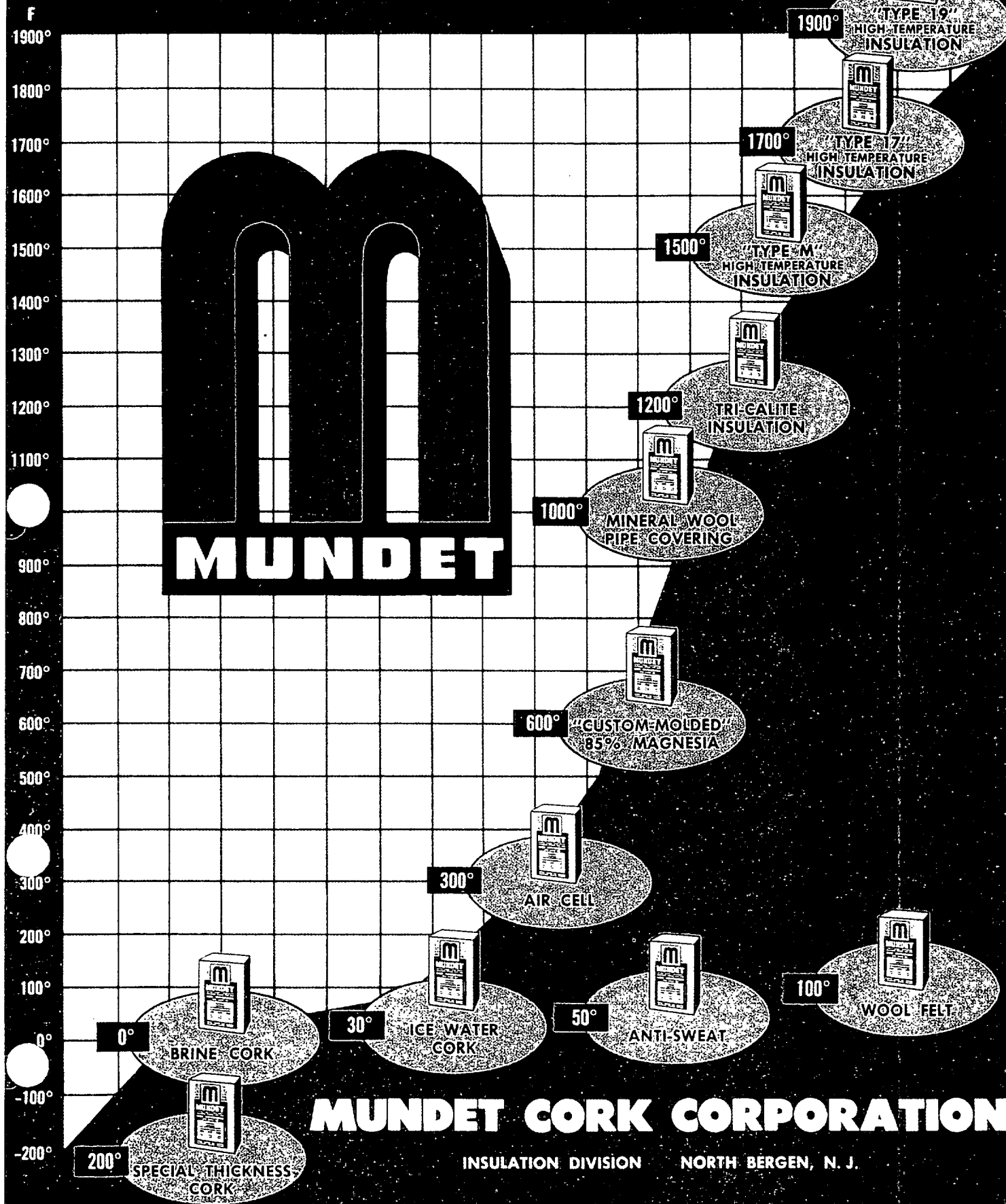
ST. LOUIS 9
3176 Brannon Ave.

PHILADELPHIA 39
856 N. 48th St.
SAN ANTONIO
130 Lombardo St.
SAN FRANCISCO 7
440 Brannon St.

In Canada: Mundet Cork & Insulation, Ltd., 35 Booth Ave., Toronto



Complete Service for Efficient Thermal Conservation





Insulation Solutions

...for ALL

HIGH TEMPERATURES

BLOCK	PIPE COVERING	CEMENT	NAME OF PRODUCT	DESCRIPTION
✓	✓	✓	MUNDET "TYPE 19" INSULATION	This is a calcined diatomaceous earth and asbestos combination which makes an insulation for temperatures to 1900°F. Excellent as inner layer against extremely hot surfaces where a more efficient outer layer insulation will be used.
✓			MUNDET "TYPE 17" INSULATION	An insulation ingeniously made from high grade Mineral Wool and high heat resistant binders. Easily applied, cuts well, small waste because of stable nature. Excellent for insulation of boilers and furnaces.
✓	✓		MUNDET "TYPE M" INSULATION	Combination of asbestos with uncalcined diatomaceous earth that provides good insulation up to 1500°F. Usually used as an inner layer where more efficient outer layer insulation will be applied. In block form used as back-up insulation of refractories.
○		✓	MUNDET "A-1" INSULATING CEMENT	A good plastic insulation where high efficiency is required. Excellent covering capacity—50 board feet per cwt. Mineral Wool base. Can be reclaimed when used on temperatures under 1200°F. Effective up to 1800°F.
		✓	MUNDET "NE PLUS ULTRA" INSULATING CEMENT	A finishing cement for service up to 1700°F made of Mineral Wool with a hydraulic setting binder and other ingredients. Provides a smooth surface—no shrinkage cracks when dry. Easily trowelled, good appearance. Surface can be painted any desirable color.
✓			MUNDET MINERAL WOOL BLANKETS	Flexible blankets for use on temperatures up to 1200°F. Made of moisture resistant Mineral Wool felted between different styles of metal fabric. Blankets are flexible and can be applied on the equipment with curved or irregular surfaces. Requires a finishing cement to complete job.
✓	✓		MUNDET "TRI-CALITE" INSULATION	A calcium silicate insulation with high efficiency from 250°F to 1250°F. Maintains its same dimensional characteristics throughout entire temperature range. Stable under all atmospheric conditions. Light in weight, easily applied to present attractive finish. Dimensionally stable when immersed in water.

INTERMEDIATE TEMPERATURES

✓	✓	✓	MUNDET "CUSTOM-MOLDED" 85% MAGNESIA INSULATION	A standard insulation for the best efficiency on temperatures up to 550°F or 600°F. Light in weight, low conductivity, stable, permanent and easily applied. One of the best known products for industrial work for the last half century.
✓			MUNDET INDUSTRIAL FELT INSULATION	Flexite felted insulation can be used on temperatures from sub zero to 600°F. A light weight resilient insulating felt made of moisture repellent Mineral Wool. Excellent thermal properties, good stability under severe service conditions. Made in densities from 2½ lbs. to 4 lbs. per cubic foot.
		✓	MUNDET 85% MAGNESIA CEMENT	An insulating cement for temperatures up to 600°F. Mix with water and it is ready for use as an efficient insulation over fittings and irregular surfaces. Has unusual covering capacity, approximately 60 board feet per cwt.

TEMPERATURE PROBLEMS

HOT AND COLD WATER - LOW PRESSURE STEAM

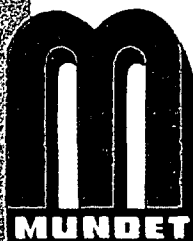
BLOCK	PIPE COVERING	CEMENT	NAME OF PRODUCT	DESCRIPTION
✓	✓		MUNDET AIR-CELL INSULATION	A cellular form of insulation made by corrugating asbestos paper. Corrugation is usually ¼" thick made in 3 and 4 ply. Finer corrugations available for greater efficiency. For temperatures up to 350°F.
	✓		MUNDET WOOL FELT INSULATION	A pipe covering used on hot and cold water lines. Produced by laminating approximately 12 layers per 1" thick. High grade organic felt specially processed provides porosity, the basis for good insulation, and gives high efficiency. Will prevent condensation under normal conditions of temperature and humidity.
	✓		MUNDET ANTI-SWEAT INSULATION	A similar insulation to Wool Felt except it contains 6 waterproof layers in its construction to give vapor barrier characteristics. Used particularly on cold water air conditioning lines for maintaining temperatures and preventing sweating of pipes.

ICE WATER AND FRIGID TEMPERATURES

✓	✓		MUNDET CORK INSULATION	Cork is the most efficient insulation for low temperature; proved best by longest usage; combines high insulating value, lightness in weight, structural strength, resilience and is practically impervious to moisture. It is reasonable in cost, fine for workability and resists deterioration. Made in all thicknesses to meet all conditions encountered in refrigeration work.
✓			MUNDET FRIGID-BOARD INSULATION	A Mineral Wool felted board, chemically stable in flat rigid block form. Will not support combustion and is especially moisture resistant. Used in areas where vermin and other conditions accelerate deterioration. Excellent for service from -150°F to +300°F.
✓	✓		MUNDET SPECIAL THICKNESS CORK INSULATION	For unusual frigid conditions encountered in chemical factories, scientific test cells, etc. Heavy duty and special thickness cork products provide the efficiency required by best engineering standards. Temperatures as low as -250°F can be insulated best with cork since it is flexible and responds readily to temperature change without cracking, breaking or otherwise deteriorating. Such applications require careful engineering.

MISCELLANEOUS APPLICATIONS

	✓		UNDERGROUND CONDUIT	Central stations producing steam for distribution to many surrounding areas should use an efficient underground tile conduit system. All such jobs are specially engineered with a choice of several systems depending upon the soil conditions encountered. Many years of experience prove insulated pipes enclosed in tile underground conduit maintain permanence and continued efficiency.
✓	✓		MUNDET DRI-MAG INSULATION	Basically this insulation has all of the insulating characteristics and other properties of 85% Magnesia. But in addition is treated to withstand water conditions. When in service and flooded with water will remain in original condition and dry out without damage. Should be used any where that a good insulation is required in the presence of water.
		✓	MUNDET ASPHALT MASTIC PRIMER AND CEMENT	Many sundry products are required for the proper application of cold insulation such as primers and mastic coatings made of asphalt basis. Waterproof paints, cements, seam fillers and putties are also available, in fact all accessories materials to a cold-storage job are available in Mundet's line of insulation products.
		✓	MUNDET "7M" ASBESTOS CEMENT	For general use on heated metallic surfaces and over insulating blocks the most general and acceptable type of plastic finish is regular mine run asbestos fiber. This is good for temperatures up to 1000°F. It can be used as a finishing cement with a mixture of Portland Cement with it. Covering capacity about 20 board feet per cwt. A product for all-around service with other insulation materials.



CUSTOM MOLDED 85% MAGNESIA INSULATION

PRINCIPAL ADVANTAGES

Mundet "Custom Molded" 85% Magnesia is composed of pure magnesium carbonate (4Mg Co_3 , Mg (OH)_2 , $5\text{H}_2\text{O}$) and selected long asbestos fibers. The crystalline structure of microscopic dimensions entraps a large amount of air, providing a barrier that results in a high degree of insulation efficiency. Asbestos fibers are dispersed throughout the mass, which results in great structural stability. 85% Magnesia is available in sectional and segmental pipe covering form and in flat and curved block form for surface temperatures to 550°F . Under certain prescribed conditions it may be used for temperatures to 600°F .

PROVED DURABILITY . . . Mundet 85% Magnesia should be considered on the basis of the only true measurement of insulation value; its capacity to serve at highest insulating efficiency over a long period of years — perhaps even for the life of a plant. When exposed to alternating heating or cooling, it does not crack, spall or undergo structural changes that might affect insulating properties. It withstands mechanical shock and vibration within reasonable limits.

LOW THERMAL CONDUCTIVITY . . . The following conductivity factors have been determined after tests of Mundet "Custom-Molded" 85% Magnesia pipe covering made by recognized independent research laboratories, confirmed by government laboratories and constantly checked in the manufacturer's own research laboratories.

mean temperature $^\circ\text{F}$	thermal conductivity (k) btu/hr/sq. ft./ $^\circ\text{F}/\text{in}$
100	0.338
200	0.363
300	0.408
400	0.454
500	0.500

MINIMUM SHRINKAGE . . . When applied with each section butting snugly to the next, Mundet 85% Magnesia can be expected to remain in this form permanently. Shrinkage at maximum recommended temperature is so slight that there is no change in physical dimensions, therefore no loss of heat at butts or seams. (Linear shrinkage—24 hr. soaking heat at 500°F , less than 1%.)

COMPRESSIVE STRENGTH . . . Mundet 85% Magnesia withstands heavy loads without fracture. To compress $1\frac{1}{2}$ " block $\frac{1}{8}$ " requires 75 to 80 lbs. per sq. in. load.

HIGH DUCTILE STRENGTH . . . Modulus of rupture as established by recognized tests made by government and industrial laboratories is higher than required by standard specifications.

LIGHTER WEIGHT . . . Mundet light density type 85% Magnesia weighs only 11 lbs. per cubic foot $\pm \frac{1}{2}$ lb. Its light weight makes even the larger sizes and thicknesses easy for one man to handle, thus simplifying and speeding application.

PRECISION PIPE FIT . . . Controlled manufacture assures production to tolerances of thousandths of an inch. Simplified thickness standards of prime sizes and thicknesses are intended to reduce the number of standard sizes and thicknesses of covering required for individual selection. (See table, page 3.)

EASE OF APPLICATION . . . It cuts or saws easily and cleanly, even without canvas support, thereby reducing application time. Blocks score clean and because of the ductibility can be fitted easily to the contours of irregular surfaces.

EXPERIENCED, NATION-WIDE INSULATION SERVICES ... COMPLETE FROM MANUFACTURING TO APPLICATION ...

MANUFACTURE

Since 1865, Mundet has been associated with the manufacture of cork products for industry. Magnesia and other insulating materials have been added to the Mundet line of cork insulation products, and the company is now among the leaders in the manufacture and application of high quality insulation for all ranges of high and low temperatures required in industrial and commercial operations.

Mundet operates 3 modern plants, in Hillside, N. J. and North Bergen, N. J. and these have the most modern equipment and electronic controls to assure highest product quality and uniformity. Mundet plants produce many million feet of insulation annually in both pipe covering and blocks. Plant adjacency to rail, truck, water and air terminals provides prompt, dependable shipping to all parts of the U.S.

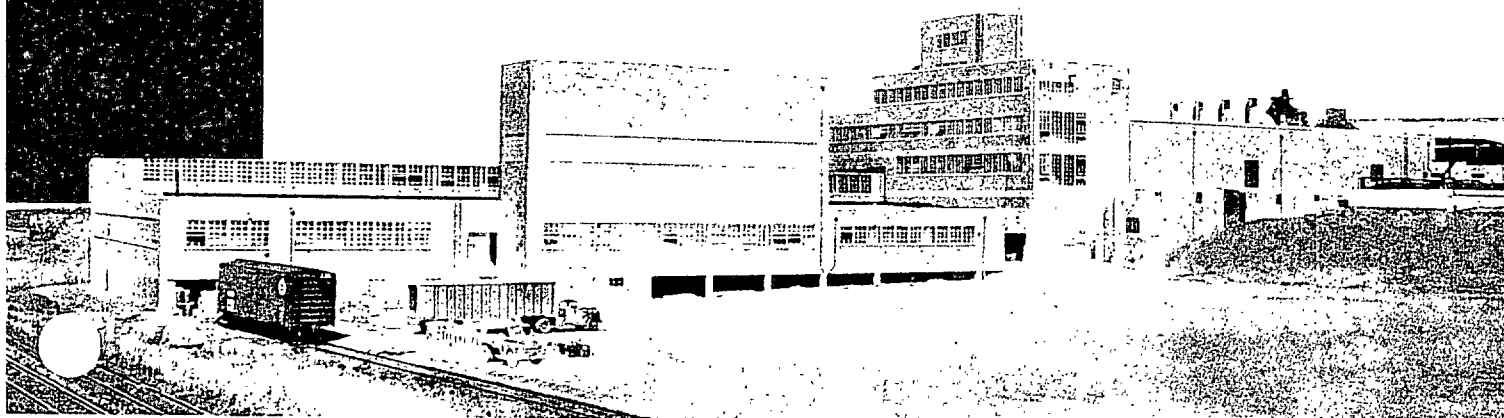
APPLICATION

Mundet insulation products are distributed and applied through district offices, coast-to-coast, from Canada to the Gulf. Warehouses for convenient stocking of Mundet products are located in principal areas. Each office is staffed by engineers, expertly qualified to handle every type of insulation problem. Supplementing our own offices, we have an integrated network of distributor-applicators in many industrial areas. These organizations, with established reputations in their localities, have qualified to apply Mundet products according to our rigid company standards. Representative installations: Power Plants; Refineries; Scientific Testing Laboratories; Jet Motor Test Cells; Ships and Storage Terminals; Steam Lines; Refrigeration and Air Conditioning Applications.

GUARANTEE

The Company unqualifiedly guarantees that its material and workmanship are of the best and agrees to replace, without cost to the customer, any defective material that may be chargeable to inferior quality or workmanship as indicated in its contract form.

- We make initial plant studies and offer recommendations and estimates to cover individual needs. Inquiries receive our prompt attention.



MUNDET CORK CORPORATION

Insulation Division; 7101 Tonnelle Avenue, North Bergen, New Jersey

ATLANTA
339-41 Elizabeth St. N. E.

BALTIMORE 30
100 S. Charles St.

CINCINNATI 2
427 West 4th St.

DALLAS 10
601 Second Ave.

DETROIT 38
14401 Prairie Ave.

HOUSTON 11
Commerce & Palmer Sts.

JACKSONVILLE 2, FLA.
800 E. Bay St.

KANSAS CITY 1, MO.
1210 W. 9th St.

LOS ANGELES
(Maywood): 6116 Walker Ave

NEW ORLEANS 16
315-25 N. Front St.

NEW YORK 17
331 Madison Ave.

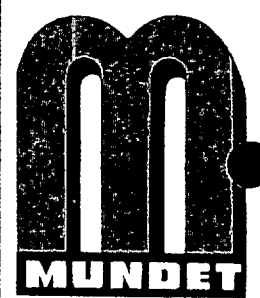
PHILADELPHIA 39
856 N. 48th St

SAN ANTONIO
130 Lombardo St.

SAN FRANCISCO 7
440 Brannan St.

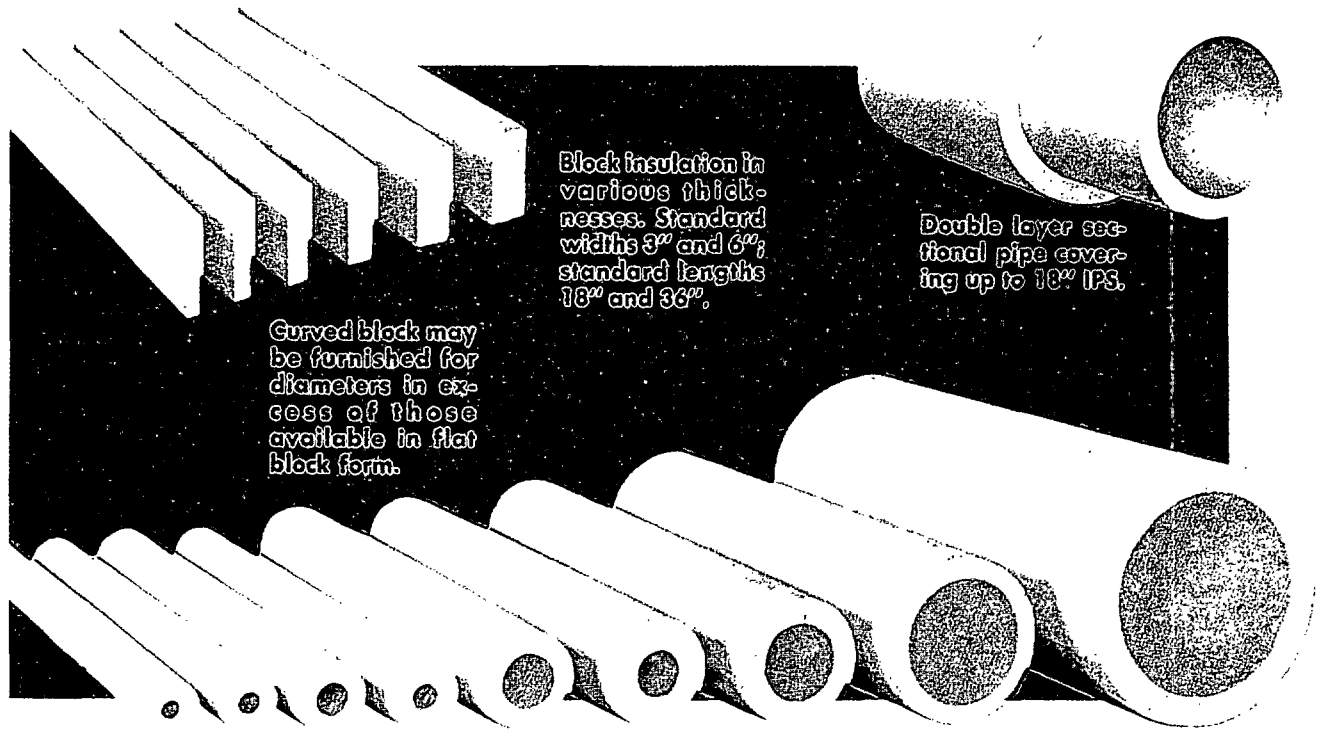
ST. LOUIS 9
3176 Brannon Ave.

In Canada: Mundet Cork & Insulation, Ltd., 35 Booth Ave., Toronto



MUNDET'S "CUSTOM MOLDED" 85% MAGNESIA EXCELS IN THERMAL CONSERVATION QUALITIES

In Pipe Covering and Blocks



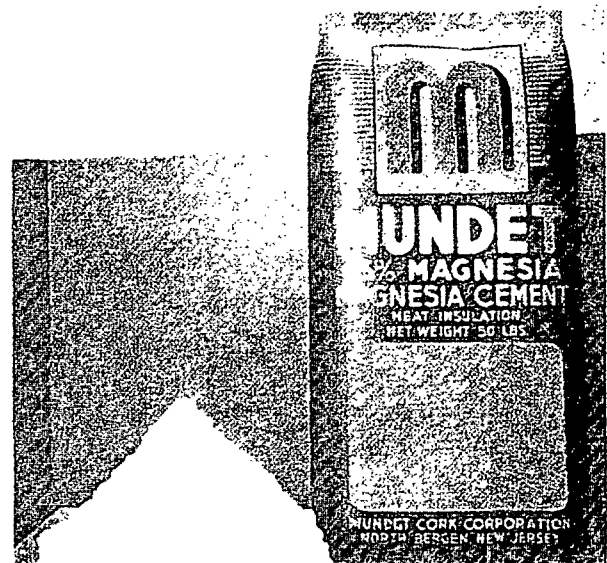
Single layer pipe covering up to 18" IPS shown unsplit and unconvassed. Standard length 36". All pipe covering of 14.136" O.D. or under is furnished with cotton jacket and band without extra charge.

MUNDET 85% MAGNESIA CEMENT

Mundet 85% Magnesia Cement provides an efficient insulation where heat surfaces are irregular and do not permit application of a preformed type of insulation. It is used for insulating fittings, for filling seams between insulation and for pointing up and surfacing after magnesia blocks have been applied to tanks, vessels, etc. It may be used for temperatures up to 600°F.

Mundet Magnesia Cement is designed for utmost efficiency rather than for finishing. For a hard permanent finish, it requires the use of a combination of Asbestos and Portland Cements. Magnesia Cement is mixed with water to the proper consistency and can be easily and smoothly trowelled over the surface to be insulated.

The conductivity of Mundet 85% Magnesia Cement averages approximately 10% higher than magnesia pipe covering and blocks due to the higher density of the cement upon application.



MUNDET "CUSTOM-MOLDED" 85% MAGNESIA PIPE COVERING

SIMPLIFIED THICKNESS STANDARDS

Simplified thickness standards of prime sizes and thicknesses are intended to reduce the number of standard sizes and thicknesses of covering required for individual selection.

By slightly varying the wall thickness, every size and thickness will exactly fit over or into another standard size and thickness. This permits a great many unusual assemblies in addition to those shown on the chart.

Usually the variations in wall thickness are plus, but the minus cases are more than compensated for by the higher insulating value of Munder light density type 85% magnesia.

notes applying to table

1. Prime sizes and thicknesses: large red figures.
2. Assembled sizes and thicknesses: large black figures.
3. Small red figures in parentheses shown immediately under each assembled thickness, are pipe sizes of layers used to make each assembled thickness. Thickness of such layers are indicated by:

No underline: Nominal 1" thick
One underline: Nominal 1 1/2" thick
Two underlines: Nominal 2" thick
Three underlines: Nominal 2 1/2" thick

4. Sectional covering. All the above sizes and thicknesses are furnished in sectional form except: in the case of 16", 17" and 18" pipe sizes, in nominal 3" and 4" thicknesses, are furnished with sectional inner layer, and segmental outer layer.

nominal pipe sizes inches	copper tubing nominal 1" thick	iron pipe					
		nominal 1" thick	nominal 1 1/2" thick	nominal 2" thick	nominal 2 1/2" thick	nominal 3" thick	nominal 4" thick
1/4"		7/8"		1 1/16" (1/4"-2")			
3/8"	7/8"	1 1/8"		2 3/16" (3/4"-2 1/2")		3" (3/4"-2 1/4")	4" (3/4"-2 1/2")
1/2"	1 1/8"	1"	1 1/16"	2 1/16" (1/2"-2 1/4")	2 7/8" (1/2"-2 1/4")	3 3/8" (1/2"-3 1/4")	4 3/8" (1/2"-6")
3/4"	1"	2 9/32"	1 1/32"	1 31/32" (3/4"-2 1/2")	2 3/4" (1/2"-3 1/4")	3 3/32" (1/2"-3 1/4")	4 3/32" (1/4"-2 1/2"-6")
1"	1 1/16"	1 3/32"	1 1/32"	2 1/8" (1"-3")	2 1/32" (1"-3")	3 3/32" (1"-4")	4 3/32" (1"-4"-6")
1 1/4"	1 1/16"	2 9/32"	1 21/32"	1 5/16" (1 1/4"-3")	2 1/32" (1 1/4"-3")	2 15/16" (1 1/4"-4 1/4")	3 11/32" (1 1/4"-4 1/4")
1 1/2"	1 1/16"	1 1/32"	1 1/32"	2 5/16" (1 1/2"-3 1/4")	2 27/32" (1 1/2"-4 1/4")	3 11/32" (1 1/2"-4 1/4")	4 11/32" (1 1/2"-3 1/4"-9")
2"	1 3/16"	1 1/16"	1 1/32"	2 1/8" (2"-4")	2 5/8" (2"-4")	3 1/8" (2"-5")	4 3/32" (2"-4"-6")
2 1/2"	1 3/16"	1 1/16"	1 7/8"	2 11/32" (2 1/2"-4 1/4")	2 7/8" (2 1/2"-6")	3 3/8" (2 1/2"-6")	4 1 1/2" (2 1/2"-6"-8")
3"	1 7/32"	1 1/32"	1 3/16"	2 1/16" (3"-5")	2 9/16" (3"-5")	3 1/16" (3"-6")	4 3/32" (3"-6"-8")
3 1/2"		1 9/32"	1 13/16"	2 3/32" (3 1/2"-6")	2 25/32" (3 1/2"-6")	3 5/16" (3 1/2"-6")	4 5/16" (3 1/2"-6"-8")
4"		1 1/16"	1 3/16"	2 1/16" (4"-6")	2 9/16" (4"-6")	3 3/32" (4"-9")	4 3/32" (4"-6"-8")
4 1/2"		1 9/32"	1 13/16"	2 5/16" (4 1/2"-7")	2 13/16" (4 1/2"-7")	3 11/32" (4 1/2"-8")	4 7/16" (4 1/2"-7")
5"		1 11/32"	1 7/32"	2 1/32" (5"-7")	2 9/16" (5"-7")	3 1/16" (5"-8")	4 7/32" (5"-8")
6"		1"	1 1/2"	2 1/32" (6"-8")	2 17/32" (6"-8")	3 1/2" (6"-8")	4 1/8" (6"-10")
7"			1 17/32"	2 1/32"		3 1/8" (7"-10")	4 1/8" (7"-11")
8"			1 17/32"	2 1/32"	2 11/16"	3 1/8" (8"-11")	4 1/8" (8"-12")
9"			1 17/32"	2 5/32"		3 1/8" (9"-12")	4 3/32" (9"-14")
10"			1 19/32"	2 3/32"	2 17/32"	3 3/32" (10"-14")	4 3/32" (10"-14")
11"			1 19/32"	2 3/32"		3 3/32" (11"-15")	4 3/32" (11"-15")
12"			1 19/32"	2 3/32"	2 3/8"	3 3/32" (12"-16")	4 1/8" (12"-18")
14"			1 1/2"	2"	2 1/2"	3" (14"-17")	4" (14"-18")
15"			1 1/2"	2"		3" (15"-18")	4" (15"-18")
16"			1 1/2"	2"	2 1/2"	3" (16"-19")	4" (16"-20")
17"			1 1/2"	2"		3" (17"-20")	4" (17"-21")
18"			1 1/2"	2"	2 1/2"	3" (18"-21")	4" (18"-22")

REPRESENTATIVE INSTALLATIONS

of Mundet Industrial Insulation

UTILITY

Electric Energy, Inc., Joppa, Illinois
 Pennsylvania Water & Power Co., Holtwood, Pa.
 Long Island Lighting Company, Mineola, L. I.
 Carolina Light and Power Co., Goldsboro, N. C.
 Capital Power Plant, Washington, D. C.
 Dallas Light & Power Co., Dallas, Texas

REFINERY

California Oil Company, Perth Amboy, N. J.
 Sinclair Oil Company, Wellsville, N. Y.
 Standard Oil Co. of California, El Segundo, Calif.
 Gulf Oil Company, Philadelphia, Pa.
 Shell Oil Company, Deer Park, Texas
 Shell Oil Company, Wood River, Illinois

CHEMICAL

Atomic Energy Commission, Oak Ridge, Tenn.
 Union Carbide & Carbon Co., Marietta, Ohio
 Monsanto-Mobay Chemical Co., New Martinsville, W. Va.
 General Aniline & Dye Co., St. Louis, Mo.
 E. I. du Pont de Nemours & Co., Kern, Indiana
 Proctor & Gamble Co., Cincinnati, Ohio and Dallas, Texas

INDUSTRIAL

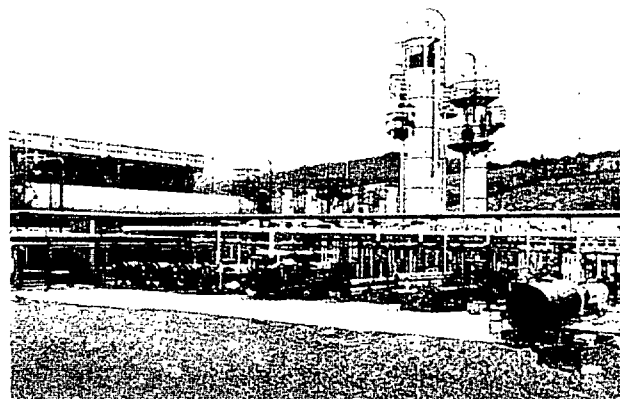
Bethlehem Steel Company, Sparrows Point, Md., Steel Mill
 Whippany Paper Board Co., Whippany, N. J., Paper Mill
 General Motors Corp., Willow Run, Mich., Manufacturing
 Ford Motor Co., Nashville, Tenn., Glass Plant
 American Enka Corp., Enka, N. C., Manufacturing
 Melpar, Inc., (Westinghouse), Wash., D. C., Electronic Mfg.

COMMERCIAL

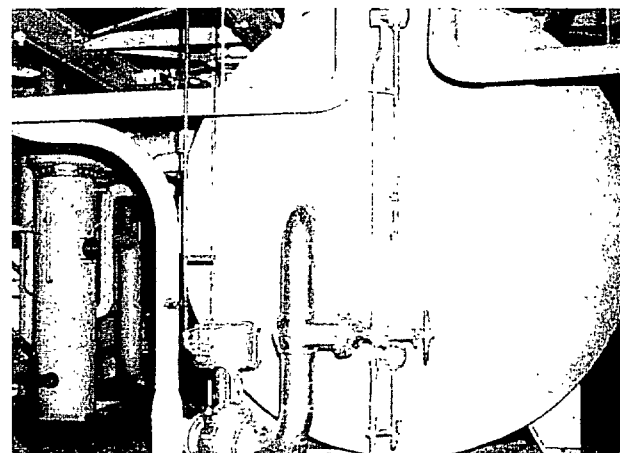
Hotel Statler, New York, N. Y.
 Beverly Hilton Hotel, Los Angeles, Calif.
 Dinkler-Plaza Hotel, Atlanta, Ga.
 Ford Hospital, Detroit, Mich.
 Dearborn High School, Dearborn, Mich.
 Medical Towers Building, Houston, Texas



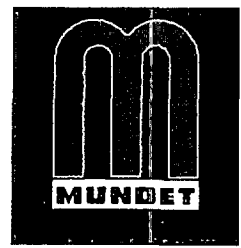
Power station installation has Mundet 85% Magnesia blocks with galvanized jacket.



Mundet "Custom-Molded" 85% Magnesia insulation with sheet finish—erected in a refinery on propane unit.



This tank is insulated with Mundet 85% Magnesia blocks with reinforced hard finish.



Recommended Thicknesses of 85 % Magnesia Pipe Covering

temp. range (F.)	pipe insulation thickness* (nominal in.)				equipment insulation thickness, in.**
	pipe sizes, in.				
	½ to 3½	4 to 6	7 to 10	11 and over	
100-200	1	1	1½	1½	1½
200-300	1	1½	1½	2	2
300-400	1½	2	2½	2½	2½
400-500	1½	2	2½	3	3
500-600	2	2½	3	3½	3½

* Thicknesses for average conditions; exceptional conditions may necessitate thicker insulation.

** For outdoor lines and equipment, use ½ in. thicker insulation than listed.

Note: Table prepared from data supplied by MIMA.

Heat Savings Through Use of Mundet 85 % Magnesia Blocks With Recommended Thicknesses

temp. hot surface up to:	recom- mended block thick- ness, in.	blocks with no finish			with ½" magnesia cement		
		bare loss	savings	eff.%	bare loss	savings	eff.%
150°F.	1½	143.8	127.9	88.9	143.8	130.2	90.6
250°F.	2	412.3	383.7	93.0	412.3	386.9	93.9
350°F.	2½	784.9	746.7	95.2	784.9	750.5	95.6
450°F.	3	1281.6	1235.1	96.4	1281.6	1238.7	96.6
550°F.	3½	1932.6	1878.8	97.1	1932.6	1882.5	97.4

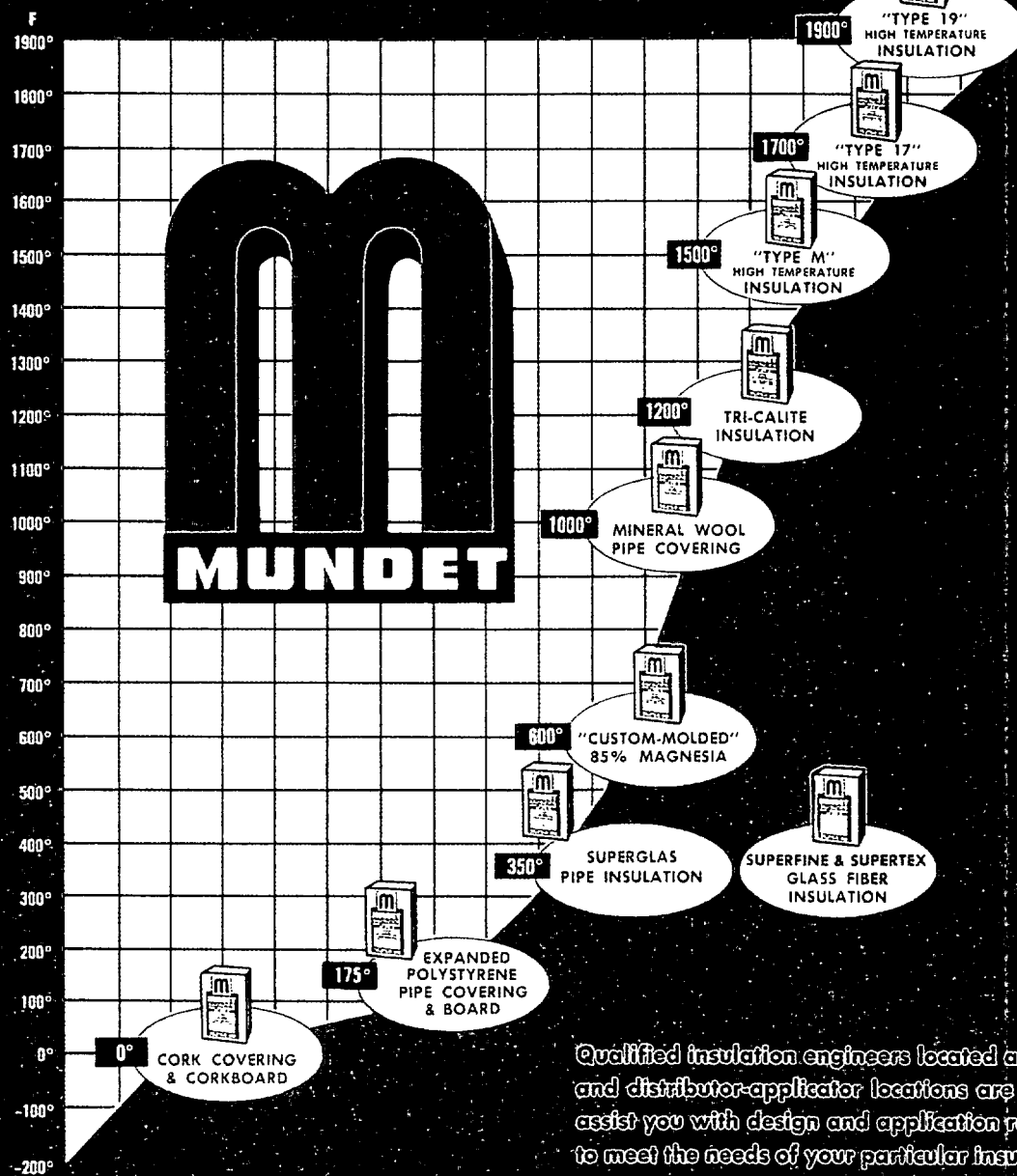
Notes: Efficiencies of hard finish cement is approximately 1% less than values for finish given in table.

Savings and losses are in btu per sq. ft. per hr. Air temperature is taken as 70°F. Bare losses represent an average for horizontal and vertical surfaces for an average condition of surface (emissivity taken as 0.85).

Heat Saved With Thicknesses Recommended Expressed in btu's per linear ft. per hr.

temperature of line—°F.	150°F.		250°F.		350°F.		450°F.		550°F.	
temperature difference	80°F.		180°F.		280°F.		380°F.		480°F.	
pipe size, in.	bare losses	savings	bare losses	savings	bare losses	savings	bare losses	savings	bare losses	savings
½"	38.2	27.8	108.8	85.3	203.9	164.8	327.2	280.0	485.3	426.0
¾"	46.7	34.4	133.2	104.3	250.0	212.3	402.0	347.7	597.2	533.7
1	57.2	42.7	163.2	132.9	306.8	265.8	494.2	435.1	735.7	667.0
1¼	70.8	55.3	202.1	164.3	380.6	335.6	614.4	547.9	916.1	834.4
1½	80.1	63.1	228.6	190.1	431.0	379.0	696.6	621.6	1039.7	956.1
2	98.0	77.1	280.1	235.7	528.9	470.2	856.3	771.7	1280.6	1184.5
2½	116.7	94.4	333.7	280.0	631.0	557.4	1023.1	916.0	1532.3	1430.6
3	139.8	113.7	399.8	340.3	757.2	679.5	1229.7	1117.7	1844.4	1718.9
3½	157.8	132.2	451.7	393.9	856.1	758.3	1391.8	1250.3	2089.6	1960.6
4	175.8	143.8	503.5	446.6	955.1	878.0	1554.1	1443.1	2335.3	2205.2
4½	193.7	162.1	554.9	483.8	1053.3	961.5	1715.3	1583.1	2579.7	2441.5
5	213.6	175.1	612.1	521.9	1162.8	1070.8	1895.2	1762.7	2852.6	2701.9
6	250.9	204.1	719.4	644.2	1368.3	1263.3	2233.2	2083.0	3365.2	3191.9
7	285.7	247.7	819.4	730.9	1560.1	1442.6	2548.9	2379.3	3845.0	3679.0
8	320.0	278.0	918.3	820.2	1749.7	1644.2	2861.3	2709.2	4320.1	4138.4
9	354.4	308.2	1017.2	909.4	1939.7	1804.8	3174.6	2979.7	4796.6	4597.8
10	392.9	343.6	1128.2	1013.3	2152.9	2023.5	3526.5	3340.4	5332.4	5115.1
11	426.3	364.2	1225.3	1080.0	2337.6	2173.4	3831.4	3656.8	5797.1	5563.6
12	459.9	402.6	1321.1	1187.5	2523.8	2376.0	4139.0	3946.1	6265.9	6016.9
14	501.5	436.5	1441.1	1320.8	2754.9	2588.9	4521.0	4313.8	6848.7	6603.6
16	567.8	494.4	1632.4	1496.7	3123.2	2936.5	5130.4	4899.1	7778.7	7504.9
18	633.5	552.1	1821.9	1671.2	3488.4	3282.1	5735.1	5478.9	8702.4	8406.1
20	698.9	608.7	2010.6	1845.1	3852.3	3625.8	6337.8	6057.4	9623.5	9292.5
24	828.5	721.8	2384.5	2189.0	4574.2	4307.3	7539.3	7209.2	11454.5	11065.5
30	1020.6	888.8	2939.5	2698.2	5646.5	5320.5	9315.3	8911.9	14181.1	13707.3

Complete Service for Efficient Thermal Conservation



Qualified insulation engineers located at Mundet branches and distributor-applicator locations are available to assist you with design and application recommendations to meet the needs of your particular insulation problem. Please call on us.

MUNDET CORK CORPORATION

Insulation Division: 7101 Tonnelle Avenue, North Bergen, New Jersey

ATLANTA
339-41 Elizabeth St. N. E.
CHICAGO
35 E. Wacker Dr.
CINCINNATI 2
427 West 4th St.

DETROIT 38
14401 Prairie Ave.
HOUSTON 11
6601 Supply Row
JACKSONVILLE 2, FLA.
514 E. Bay St.

NEW YORK 17
331 Madison Ave.

KANSAS CITY 1, MO.
1210 W. 9th St.
LOS ANGELES
(Maywood): 6116 Walker Ave.
PHILADELPHIA 39
856 N. 48th St.

ST. LOUIS 9
3176 Brannon Ave.

PORTLAND, ORE.
2435 N. Lombard St.
SAN ANTONIO
130 Lombardo St.
SAN FRANCISCO 7
440 Brannan St.

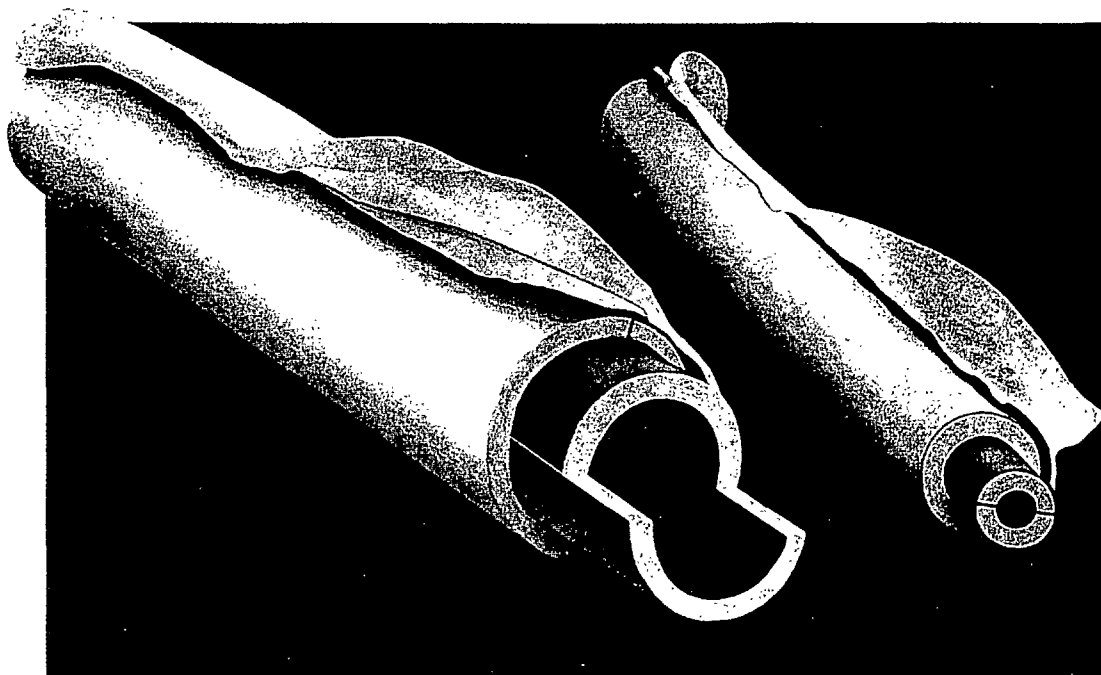


MUNDET ANTI-SWEAT INSULATION

ANTI-SWEAT INSULATION may be used on cold water piping where more than ordinary severe conditions are encountered that might cause condensation to form on pipes. The advantage that anti-sweat has over ordinary woolfelt is the inclusion of several water resistant membranes within the body of the pipe covering.

Mundet Anti-Sweat Insulation consists of a liner of asphalt saturated felt followed by the required thickness of specially processed woolfelt paper. Two additional layers of saturated asphalt paper are then inserted in the center of the construction followed by an additional thickness of the woolfelt, and finally two layers of asphalt saturated felt on the outside underneath the canvas jacket. The outer layer has a lap extending about three inches over the joint.

In thicknesses $\frac{1}{2}$ " and $\frac{3}{4}$ " the pipe covering is made in single layer construction. In thicknesses of 1" and up it is made in telescopic construction to permit the outer layer being rotated over the inner layer thus preventing any open seams or joints in the pipe covering. Packed in cartons with bands for application.



● View shows special double layer construction of ANTI-SWEAT insulation

MUNDET CORRUGATED ASBESTOS PAPERS

The single sheet of $\frac{1}{4}$ " corrugated asbestos paper is supplied in rolls containing 250 sq. ft. 36" wide. In this form the sheet is as flexible as a layer of paper and can be wrapped around furnace pipes and warm air ducts. Each roll weighs about 50 lbs.

MUNDET AIR CELL INSULATION: Temperature limit 300°F.

continued...

This same cellular type of insulation is also made in sheet or block form for use in covering tanks, boilers, furnaces, drums, driers and other such flat and curved surfaces. Furnished in thicknesses of 3/4" to 4" in increments of 1/4". Standard sizes 12", 18" and 36" wide by 36" long.

Conductivity of Mundet Air Cell Insulation

<u>Mean Temp.</u>	<u>k factor</u>
100°F.	.53 btu
200°F.	.65 btu
300°F.	.77 btu

MUNDET HAIRFELT INSULATION

HAIRFELT is used on fittings or irregular surfaces as a cold insulation. It is also recommended for wrapping domestic water pipes to prevent freezing where low temperatures are maintained for a prolonged period and the water is not static.

This hairfelt is made either by the platen or punched process. It is composed of 100% pure cattle hair densely felted together. The cheaper grades of hairfelt are also available which comprise a mixture of cattle hair and jute.

The rolls are 6' wide x 50' long; also furnished 3' wide x 100' long and 3' wide x 50' long.

MUNDET WOOL FELT PIPE INSULATION

This type of insulation is used primarily to prevent condensation on cold water pipes and the damaging dripping from the pipe to warehouse, factory or cellar floors. It can also be used to keep water (either cold or hot) at a more constant temperature over long runs.

The efficiency of Mundet Wool Felt comes from a series of multiple laminations of specially processed felt. The name "wool felt" is descriptive rather than factual since present day formulas have developed a far superior product—that gives improved efficiency and better working characteristics than the old paper with its high wool content.

An inner liner of water-resistant paper prevents any condensation from penetrating into the body of the covering. It must be recognized that this covering, having no vapor barriers, cannot be recommended for more than ordinary and customary conditions; such as, temperatures above 50°F., humidity not in excess of 75% and ambient temperatures not over 85°F.

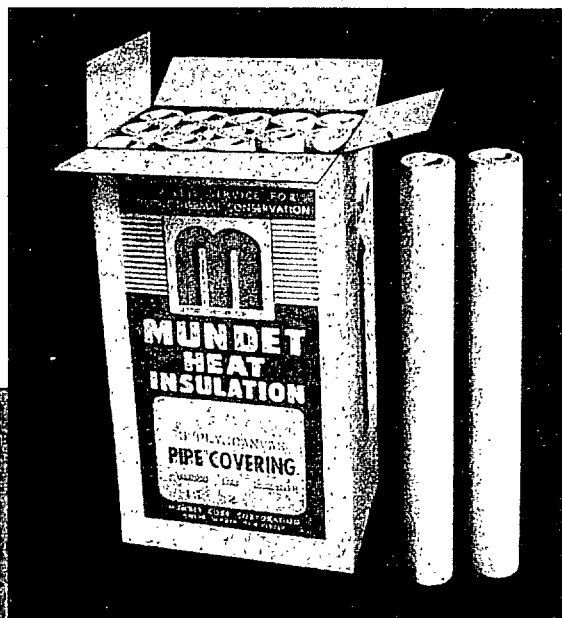
Mundet Wool Felt Pipe Covering is made in thicknesses of 1/2", 3/4" and 1". In thicknesses of 1" and greater, sections may be ordered in telescopic construction to provide means of applying so that there will be no seams in the covering that might permit the outside atmosphere coming in contact with the pipe. Greater thicknesses are obtainable but should severe conditions be encountered, it is recommended that Mundet Anti-Sweat or some other type of insulation be considered. Sections are 36" long; furnished with a cotton jacket and 3/4" wide bands.

PACKING DATA AIR CELL PIPE COVERING & WOOL FELT

Sections per Carton

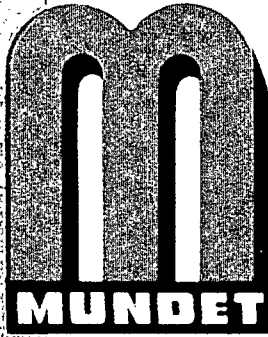
CT	SIZE IPS	3 PLY AIR CELL	4 PLY AIR CELL	1/2" THICK WOOL FELT	3/4" THICK WOOL FELT	1" THICK WOOL FELT
5/8	3/8	45	30		45	30
7/8	1/2	40	28	60	40	28
1 1/8	3/4	35	24	48	35	24
1 3/8	1	28	20	42	28	20
1 5/8	1 1/4	24	18	32	24	18
	1 1/2	20	15	30	20	15
2 1/8	2	15	12	20	15	12
	2 1/2	12	11	15	12	11
2 5/8		12	12	12	12	12
	3	16	14	9	9	8
3 1/8		12	9	12	12	9
	3 1/2	14	12	9	8	8
	4	12	10	8	8	6
4 1/8		8	6	8	8	6
	5	9	8	9	9	8
	6	6	6	6	6	6

Carton size — 20 1/4" x 13 1/2" x 36" for sizes up to 2 1/2" pipe size
 21 1/4" x 21 1/4" x 36" for larger sizes



MUNDET CORK CORPORATION

Insulation Division • NORTH BERGEN, NEW JERSEY



LOW PRESSURE STEAM HOT & COLD WATER INSULATIONS

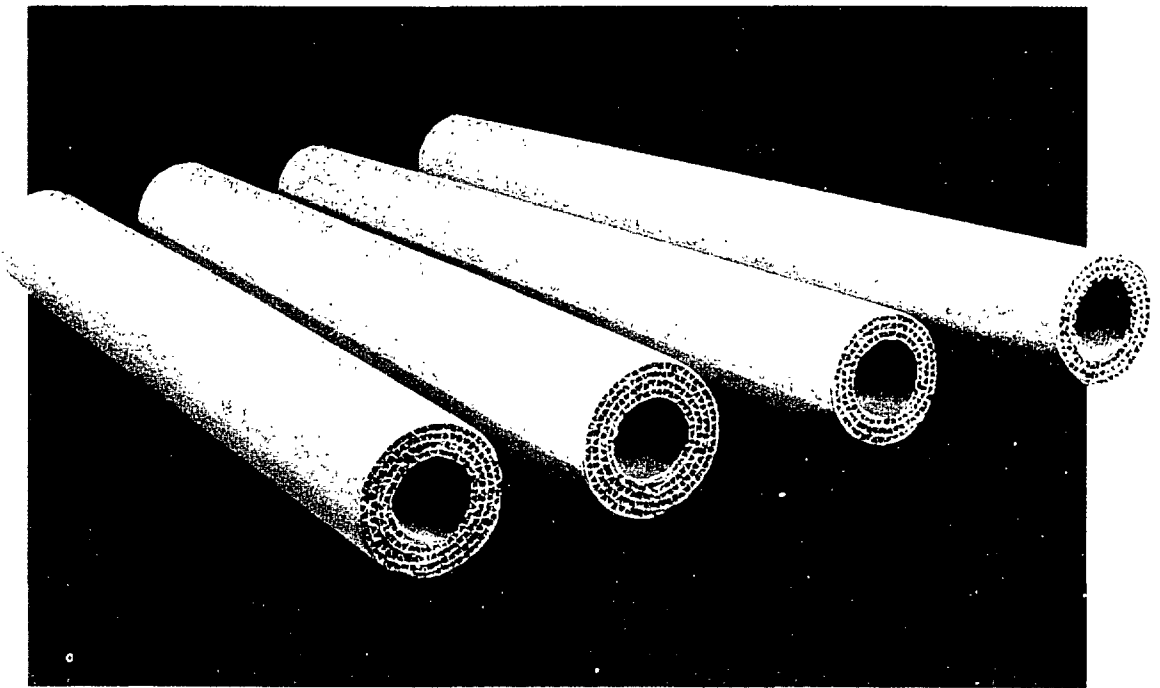
MUNDET CORK CORPORATION

Insulation Division • NORTH BERGEN, NEW JERSEY

MUNDET AIR CELL INSULATION: Temperature limit 300°F.

This has been one of the standard products of the insulation industry for covering heating and condensate pipes in residences, hospitals, hotels, office buildings and other types of commercial buildings. While its conductivity is somewhat higher than other types of pipe covering, its use can be justified because of its low cost contributing to economy where temperature differentials are not great.

Mundet Air Cell is made from selected grades of pure asbestos paper. A corrugated sheet with approximately a 1/4" high arch is cemented to a flat sheet. Each ply is wrapped around a mandrel of the required pipe size to form the thickness desired — four plies to the inch. Either three or four ply is usually standard but any thickness from 2 ply-1/2" thick to 8 ply-2" thick is obtainable. Finer corrugation 1/6" and 1/8" are produced to make 6 ply and 8 ply per inch respectively.

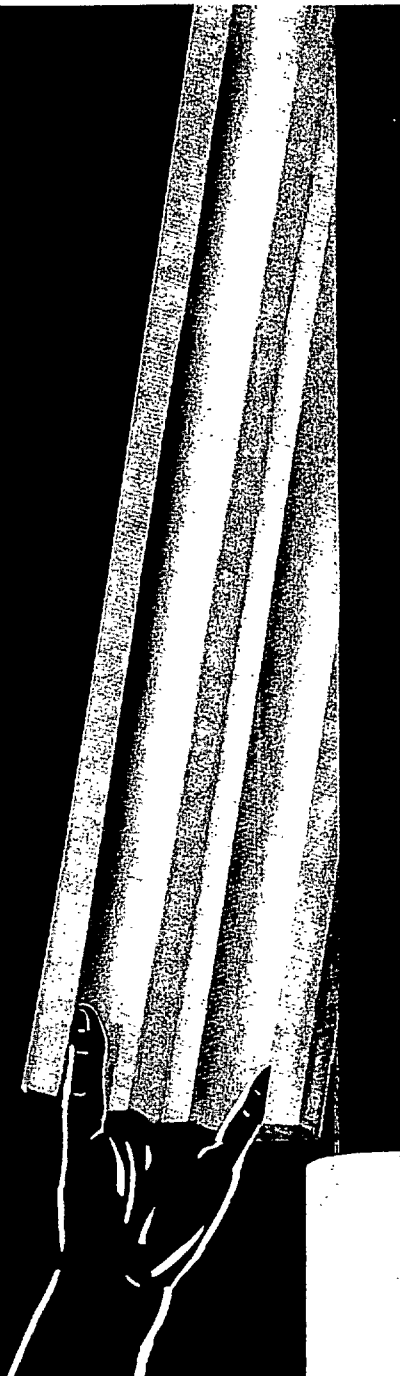
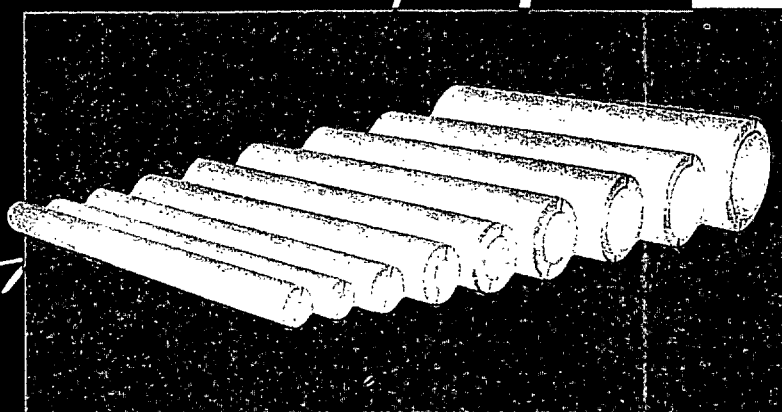


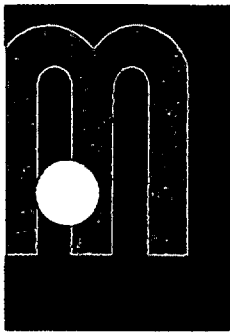
Mundet Air Cell is made in 3 foot sections, either cotton jacketed or finished with plain white glazed paper. Aluminum bands 3/4" wide furnished in each carton.

MUNDET **SUPERGLAS** **PIPE INSULATION**

(With "Hinged Action")

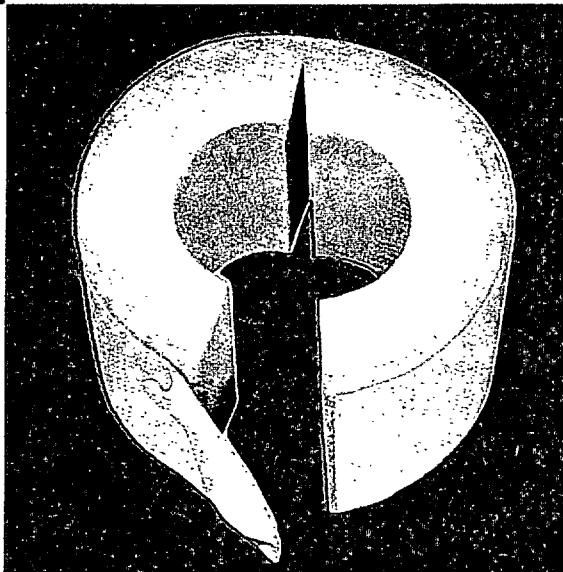
- Superior Thermal Efficiency
- Economical Application
- Low Maintenance



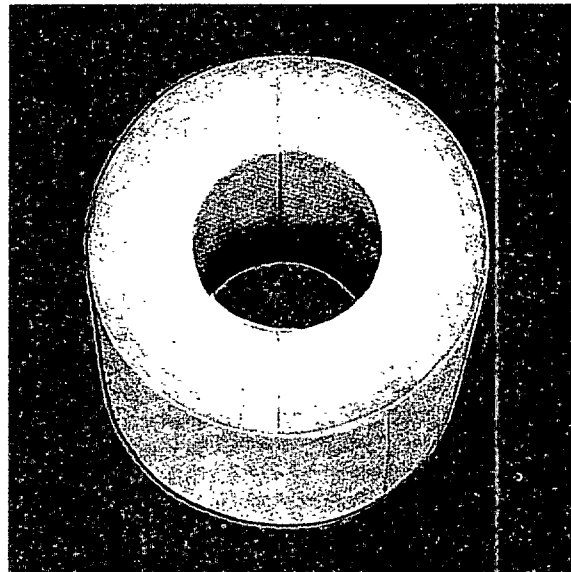


MUNDET SUPERGLAS PIPE INSULATION

with "hinged action"



Opens Easily — one-piece sections have longitudinal cut completely through one wall, partially through the other, for quick easy application.



Closes Automatically — with locking "hinged action." Snug closure insures minimum heat loss or gain. Condensation avoided by appropriate jacket.

This newly developed Mundet glass fiber pipe insulation offers these special advantages:

1. Manufactured in one-piece, full length sections which open easily and close automatically . . . this feature speeds installation and reduces labor costs.
2. Mundet Superglas Pipe Insulation permits easy cutting and fitting of the inside diameter to conform to irregularities common to pipe line systems, such as couplings, unions, reducers, etc.

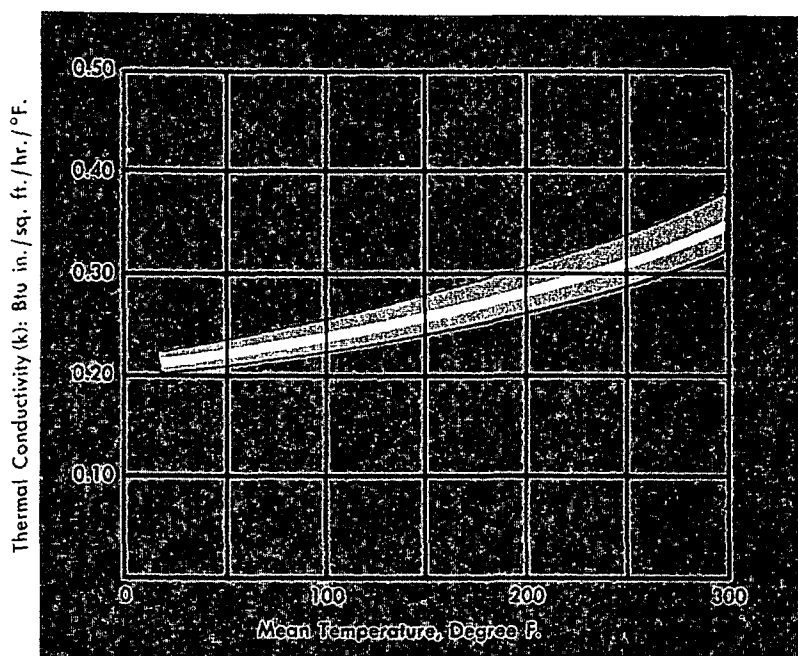
This pipe insulation is made from longer, finer glass fibers, made possible by the latest research and technical developments.

PHYSICAL PROPERTIES

- Density—3.50 lb. nominal
- Moisture adsorption—less than 0.2% by volume
- Alkalinity—less than 2% expressed as Na_2O
- Corrosivity—with steel, copper, aluminum) does not cause or accelerate
- Specific heat—0.20 B.T.U./Lb. °F
- Thermal Diffusivity — @ 150° mean temp. 0.032 sq. ft. /hr.

THERMAL CONDUCTIVITY

The shaded area in the chart below represents normal variation in conductivity due to manufacturing and raw material tolerances and to differences in testing equipment. The white curve shows average values and is used for heat loss calculations.



SUPERLATIVE INSULATING PERFORMANCE

Mundet Superglas Pipe Insulation, due to its special fiber glass construction, has efficiency that is equal to or better than commonly used insulations. Temperature limit is 350°F. The insulation is unaffected by sub-freezing temperatures.

Easy Installation — The unusual "hinged action" feature assures faster application. Each section opens easily and quickly, and closes snugly, locking the joint to insure minimum heat loss or gain. This special one-piece construction and automatic closing feature enables the applicator to use both hands in the tab sealing process.

No Special Tools — Mundet Superglas Pipe Insulation cuts and fits without special tools. Only an ordinary knife or shears are needed to mitre pieces for elbows; cut out for branch lines, hangers; strip away layers to size of fittings.

Lightweight — A 3 ft. section of 1" thick Mundet Superglas Pipe Insulation for fitting a 2" pipe weighs ¼ lb. L.F. This is ¼ the weight of some commonly used insulations which are denser and require more thickness to do the job.

Rugged Service — Unlike more rigid materials, this insulation doesn't break, or crumble during shipment or application.

Lasts Indefinitely — The glass fibers used in this insulation are incombustible . . . relatively unaffected by moisture . . . will not rot, shrink or swell.

JACKETS: (factory applied to meet hot or cold operating conditions)

Canvas — 4 oz., 6 oz., and 8 oz., in addition to standard canvas. All weights available on all insulation thicknesses and sizes. For exposed hot water supply lines; heating supply and return lines either steam or hot water.

General Purpose* — 60 lb. white bleached kraft laminated to 0.0035" thick aluminum foil. Vapor transmission rate less than .05 perms. Available for ½" and ¾" thicknesses in all pipe sizes. Used for cold water and hot water service lines. Can be used instead of canvas on hot water and steam lines when ½" and ¾" thicknesses are used.

*Not recommended on pipe with temperatures below 50°F.

Dual Temperature

WX: three ply with 60 lb. white bleached kraft; 0.001" aluminum foil; and 55 lb. black asphalt-impregnated draft. Vapor transmission rate less than .02 perms.

BX: three ply with 55 lb. black asphalt-impregnated kraft; 0.001" aluminum foil; and 55 lb. black asphalt-impregnated kraft. Vapor transmission rates less than .02 perms.

Both used for piping below 50°F. (not below minus 120°F) and where piping temperatures vary from cold to hot.

Flame Resistant — 40 lb. flame retardant draft paper laminated to 0.001" thick aluminum foil by a flame retardant adhesive. Vapor transmission rate less than .02 perms. Aluminum surface is exposed.

Weather Resistant — three weights of roofing felt available — 35 lb., 45 lb., 55 lb. For 1" thick and over pipe insulation; for all pipe sizes.

All jackets have a minimum 1½" longitudinal lap. Canvas jackets have a 2½" circumferential lap. All other jackets are sealed at the circumferential joint by a 4" wide strip of the same material, included in the carton.

GUIDE TO SPECIFICATIONS FOR APPLICATION AND FINISHING

MUNDET SUPERGLAS

Service & Temperature	Location	Jacket Material	Jacket Material for Circumferential Joints	Vapor Permeability Requirement
Hot Water 200° F.	Exposed or Concealed	Canvas or Gen. Purpose	Canvas Overlap	Breathes
			4" Strips	Breathes
	Outdoor	Roofing Felt or .016 Aluminum	4" Strips	Breathes
			3" Overlap	Breathes
Cold Water 50° F.	Exposed	Gen. Purpose	4" Strips	Barrier—less than 0.3 perm.
	Concealed	Gen. Purpose	4" Strips	Barrier—less than 0.3 perm.
	Outdoor	Roofing Felt	4" Strips	Barrier
Chilled Water, Brine, Refrigerants and Special Processes	Exposed or Concealed	WX(White) or BX(Black) Dual Temp.	4" Strips same as pipe jacket	Barrier—less than 0.02 perm.
Dual Temp. 242° F. to sub-zero (-120° F.)	Outdoor	Black Dual Temp. plus Roofing Felt or .016 Aluminum	4" Strips for Vapor Barrier. Overlap outer jackets 3"	Barrier—less than 0.02 perm.
Hot Water, Low Pressure Steam 350° F.	Exposed or Concealed	Canvas or Gen. Purpose	Canvas Overlap	Breathes
			4" Strips	Breathes
	Outdoor	Roofing Felt	4" Strips	Breathes

PIPE INSULATION

Lap Securement		Special Notes	Fittings		
Longitudinal Lap	Circumferential Lap		Material		Finish
			Elbows	Other	
Canvas Pasted	Canvas Pasted		Ins. Cement	Ins. Cement	Canvas Pasted
Banded or Stapled	Strips—Banded or Stapled		Ins. Cement	Ins. Cement	Canvas Pasted
16 Gauge Wire on 12" Centers	2 Wires per strip		Ins. Cement	Ins. Cement	Asphalt Emulsion and Glass Fiber Fabric Membrane
Bands or Screws	One band. S-clip on vertical lines	Stiffened long lap will reduce number of fasteners	Ins. Cement	Ins. Cement	
White Vapor Barrier Cement	White Vapor Barrier Cement	Use bands to hold jacket while cement sets	Ins. Cement	Ins. Cement	Canvas and White Vapor Barrier Cement
White Vapor Barrier Cement	White Vapor Barrier Cement	Staples to hold jacket while cement sets must be covered with cement	Blanket or Ins. Cement	Ins. Cement	Canvas and White Vapor Barrier Cement
Asphalt Mastic	Asphalt Mastic	Wire jacket on 12" max. centers. 16 Gauge wire	Compr. blanket Mitered Pipe Ins. or Ins. Cement	Compr. blanket or Ins. Cement	Asphalt Mastic and Glass Fiber Fabric Membrane
Vapor Barrier Cement (Same color as jacket)	Vapor Barrier Cement (Same color as jacket)	Use bands to hold jacket while cement sets	Compr. blanket Mitered Pipe Ins or Ins. Cement	Compressed blanket or oversized pipe insulation	.002 Aluminum Foil, Canvas and White Vapor Barrier Cement
Asphalt Mastic for Vapor Barrier	Asphalt Mastic for Vapor Barrier	Wire roofing felt on 12" max. centers 16 gauge wire..Use bands (no screws) with aluminum	Compressed blanket and Finishing Cement	Compressed blanket and Finishing Cement	.002 Aluminum Foil & Glass Fiber Fabric Membrane
Canvas Pasted	Pasted		Ins. Cement	Ins. Cement	Canvas Pasted
Banded or Stapled	Strips—Banded or Stapled		Ins. Cement	Ins. Cement	Canvas Pasted
16 Gauge wire on 12" Centers	2 Wires per strip		Ins. Cement	Ins. Cement	Asphalt Emulsion and Glass Fiber Fabric Membrane

GUIDE FOR USING DESIGN TABLES

Insulating Purpose

Temperature Control
Fuel & Power Savings
Personnel Protection
Condensation Prevention

Hot

Table B
" A
" B

Cold

Tables C-D
" C-D
" C-D*

The Mundet Glass Fibers' process permits production of all standard wall thicknesses—especially 1/2" and 3/4"—for all standard pipe and copper tubing sizes.

*Use of either chart depends on ambient atmospheric conditions.

A Recommended Thicknesses for Pipe Insulation where Fuel and Power Savings are of prime importance. Tables based on Still Air, Ambient Temperature 80° F. Horizontal Pipes. Heat Losses expressed per Lineal Foot of Pipe.

Pipe Surface Temperature ▶		150°			200°			250°			300°			350°		
Temp. Difference Pipe to Air ▶		70°		120°			170°			220°			270°			
Pipe Sizes ▼	Tk. In.	H.L.	S.T.	Tk. In.	H.L.	S.T.	Tk. In. (Nominal)	H.L.	S.T.	Tk. In. (Nominal)	H.L.	S.T.	Tk. In. (Nominal)	H.L.	S.T.	
1/2"	1/2"	9	94°	1/2"	17	103°	3/4"	20	103°	1"	24	103°	1 1/2"	26	98°	
3/4"	1/2"	11	95°	1/2"	20	105°	1"	22	100°	1"	29	106°	1 1/2"	30	100°	
1"	1/2"	13	95°	3/4"	19	98°	1"	23	97°	1"	30	103°	1 1/2"	32	100°	
1 1/4"	1/2"	15	95°	3/4"	22	99°	1"	29	102°	1 1/2"	28	95°	1 1/2"	36	100°	
1 1/2"	1/2"	17	96°	3/4"	24	99°	1"	29	99°	1 1/2"	32	97°	1 1/2"	41	102°	
2"	1/2"	20	97°	3/4"	29	100°	1"	34	100°	1 1/2"	36	98°	1 1/2"	47	102°	
2 1/4"	1/2"	24	97°	3/4"	33	100°	1"	39	100°	1 1/2"	45	102°	2"	48	99°	
3"	1/2"	28	97°	3/4"	39	100°	1"	46	102°	1 1/2"	48	100°	2"	52	99°	
3 1/4"	1/2"	31	97°	3/4"	43	101°	1"	44	98°	1 1/2"	59	104°	2"	61	102°	
4"	1/2"	35	98°	3/4"	48	101°	1"	56	102°	1 1/2"	58	101°	2"	62	99°	
4 1/4"	1/2"	39	98°	3/4"	53	101°	1"	52	99°	1 1/2"	69	104°	2"	72	103°	
5"	1/2"	42	98°	3/4"	57	101°	1 1/2"	51	96°	1 1/2"	68	102°	2"	73	101°	
6"	1/2"	50	98°	3/4"	66	102°	1 1/2"	60	96°	1 1/2"	81	102°	2"	83	101°	
7"	1/2"	57	98°	3/4"	75	102°	1 1/2"	65	97°	1 1/2"	88	102°	2"	92	101°	
8"	1/2"	61	98°	3/4"	86	103°	1 1/2"	73	97°	1 1/2"	97	102°	2"	101	101°	
9"	1/2"	67	98°	3/4"	92	102°	1 1/2"	79	97°	1 1/2"	104	102°	2"	107	101°	
10"	1/2"	75	97°	3/4"	103	103°	1 1/2"	86	97°	1 1/2"	115	102°	2"	118	101°	
11"	1/2"	81	98°	3/4"	111	103°	1 1/2"	91	97°	1 1/2"	122	102°	2"	129	102°	
12"	1/2"	88	97°	3/4"	120	103°	1 1/2"	97	97°	1 1/2"	130	102°	2"	139	102°	
14"	1/2"	101	98°	3/4"	130	103°	1 1/2"	115	99°	2"	120	98°	2"	155	103°	

Tk. In.—Thickness (Inches) H.L.—Heat Loss (B.T.U./L.F./Hr.) S.T.—Surface Temp. of Insulation °F.

B Recommended Thicknesses of Pipe Insulation for: Low Initial Investment; Temperature Control; or Personal Protection. Tables based on Still Air, Ambient Temperature 80° F. Horizontal Pipes. Heat Losses expressed per Lineal Foot of Pipe.

Pipe Surface Temperature ▶		150°		200°		250°		300°		350°	
Temp. Difference Pipe to Air ▶		70°		120°		170°		220°		270°	
Pipe Sizes ▼	Tk. In.	S.T.	Tk. In.	S.T.	Tk. In.	S.T.	Tk. In.	S.T.	Tk. In.	S.T.	
1/2" 3/4" 1" 1 1/4"	1/2"	94°	1/2"	103°	1/2"	112°	1/2"	119°	3/4"	113°	
	1/2"	95°	1/2"	105°	1/2"	113°	1/2"	121°	3/4"	115°	
	1/2"	95°	1/2"	106°	1/2"	114°	1/2"	123°	3/4"	117°	
	1/2"	95°	1/2"	106°	1/2"	115°	1/2"	124°	3/4"	118°	
1 1/2" 2" 2 1/2" 3"	1/2"	95°	1/2"	107°	1/2"	116°	3/4"	112°	3/4"	119°	
	1/2"	97°	1/2"	108°	1/2"	117°	3/4"	113°	3/4"	120°	
	1/2"	97°	1/2"	108°	1/2"	118°	3/4"	115°	3/4"	122°	
	1/2"	97°	1/2"	109°	1/2"	119°	3/4"	115°	3/4"	123°	
3 1/2" 4" 4 1/2" 5"	1/2"	97°	1/2"	109°	1/2"	120°	3/4"	116°	3/4"	124°	
	1/2"	98°	1/2"	110°	1/2"	120°	3/4"	116°	3/4"	125°	
	1/2"	98°	1/2"	110°	1/2"	121°	3/4"	117°	1"	128°	
	1/2"	98°	1/2"	110°	1/2"	121°	3/4"	117°	1"	117°	
6" 7" 8" 9"	1/2"	98°	1/2"	110°	1/2"	122°	3/4"	118°	1"	120°	
	1/2"	98°	1/2"	110°	1/2"	121°	3/4"	119°	1"	119°	
	1/2"	98°	1/2"	110°	1/2"	122°	3/4"	120°	1"	117°	
	1/2"	98°	1/2"	110°	1/2"	120°	3/4"	120°	1"	118°	
10" 11" 12" 14"	1/2"	97°	1/2"	110°	1/2"	120°	3/4"	120°	1"	120°	
	1/2"	98°	1/2"	110°	1/2"	120°	3/4"	120°	1"	117°	
	1/2"	97°	1/2"	110°	1/2"	120°	3/4"	120°	1"	116°	
	1/2"	98°	1/2"	111°	1/2"	121°	3/4"	120°	1"	121°	

Tk. In.—Thickness (Inches) H.L.—Heat Loss (B.T.U./L.F./Hr.) S.T.—Surface Temp. of Insulation °F.

C Recommended thicknesses and corresponding Heat Gain for Ambient Air Conditions of 90° F. at 90% relative humidity.

Pipe Surface Temperature ▶		35° F.		0° F.		-30° F.		-60° F.		-120° F.	
Condition ▶		Ice Water		Brine		Special Brine		Refrigerants		Special Process	
Pipe Sizes ▼		R.T.	H.G.	R.T.	H.G.	R.T.	H.G.	R.T.	H.G.	R.T.	H.G.
1/2"	3/4"	1 1/2"	5	2 1/2"	6	3"	7	3 1/2"	7	4"	10
1"	1 1/4"	1 1/2"	5	2 1/2"	6	3"	7	3 1/2"	8	4 1/2"	10
1 1/4"	2"	1 1/2"	6	2 1/2"	6	3"	8	3 1/2"	9	4 1/2"	11
1 1/2"	2 1/4"	2"	6	3"	7	3"	9	3 1/2"	11	4 1/2"	12
2"	2 1/2"	2"	7	3"	8	3 1/2"	8	4"	10	5"	12
2 1/4"	3"	2"	7	3"	8	3 1/2"	10	4"	11	5"	13
2 1/2"	3 1/4"	2"	8	3"	10	3 1/2"	11	4"	12	5 1/2"	14
3"	3 1/2"	2"	9	3"	10	4"	11	4 1/2"	13	5 1/2"	15
4"	4"	2"	10	3"	12	4"	13	4 1/2"	15	6"	18
5"	4 1/4"	2 1/2"	11	3 1/2"	13	4"	15	4 1/2"	17	6"	19
6"	4 1/2"	2 1/2"	12	3 1/2"	14	4 1/2"	16	5"	18	6 1/2"	21
7"	4 3/4"	2 1/2"	14	3 1/2"	15	4 1/2"	17	5"	19	6 1/2"	22
8"	5"	2 1/2"	15	3 1/2"	17	4 1/2"	18	5"	21	6 1/2"	24
9"	5 1/4"	2 1/2"	16	4"	17	4 1/2"	20	5 1/2"	22	7"	25
10"	5 1/2"	2 1/2"	17	4"	18	4 1/2"	22	5 1/2"	24	7"	27
11"	5 3/4"	2 1/2"	19	4"	20	4 1/2"	23	5 1/2"	25	7"	28
12"	6"	2 1/2"	21	4"	21	5"	24	5 1/2"	26	7"	30
14"	6 1/4"	2 1/4"	23	4"	23	5"	28	6"	27	7 1/2"	31

R.T.—Recommended Thicknesses—Inches (Nominal)

H.G.—Heat Gain (B.T.U./Lin. Ft./Hr.)

D Recommended thicknesses and corresponding Heat Gain for Ambient Air Conditions of 90° F. at 80% relative humidity.

Pipe Surface Temperature ▶		35° F.		0° F.		-30° F.		-60° F.		-120° F.	
Condition ▶		Ice Water		Brine		Special Brine		Refrigerants		Special Process	
Pipe Sizes ▼		R.T.	H.G.	R.T.	H.G.	R.T.	H.G.	R.T.	H.G.	R.T.	H.G.
1/2"	3/4"	3/4"	6	1"	8	1 1/2"	9	1 1/2"	11	2"	13
3/4"	1"	3/4"	7	1 1/2"	8	1 1/2"	10	2"	10	2 1/2"	13
1"	1 1/4"	3/4"	8	1 1/2"	8	1 1/2"	11	2"	11	2 1/2"	14
1 1/4"	1 1/2"	1"	9	1 1/2"	9	1 1/2"	12	2"	14	2 1/2"	16
1 1/2"	1 3/4"	1"	9	1 1/2"	10	2"	12	2"	15	2 1/2"	18
2"	2"	1"	10	1 1/2"	12	2"	13	2"	16	2 1/2"	19
2 1/4"	2 1/4"	1"	12	1 1/2"	15	2"	16	2 1/2"	17	3"	20
2 1/2"	2 1/2"	1"	14	1 1/2"	16	2"	17	2 1/2"	18	3"	21
3"	2 3/4"	1"	16	1 1/2"	18	2"	20	2 1/2"	21	3"	25
4"	3"	1"	20	1 1/2"	23	2"	24	2 1/2"	25	3"	29
5"	3 1/4"	1"	16	1 1/2"	18	2"	20	2 1/2"	21	3"	25
6"	3 1/2"	1"	24	2"	21	2"	27	2 1/2"	28	3"	33
7"	3 3/4"	1"	28	2"	23	2"	30	2 1/2"	31	3"	36
8"	4"	1"	29	2"	26	2"	33	2 1/2"	34	3 1/2"	36
9"	4 1/4"	1 1/2"	24	2"	27	2"	35	2 1/2"	37	3 1/2"	40
10"	4 1/2"	1 1/2"	26	2"	30	2"	39	2 1/2"	41	3 1/2"	43
11"	4 3/4"	1 1/2"	29	2"	31	2"	41	3"	38	3 1/2"	45
12"	5"	1 1/2"	32	2"	36	2 1/2"	39	3"	41	3 1/2"	48
14"	5 1/4"	1 1/2"	35	2"	41	2 1/2"	44	3"	46	3 1/2"	53

R.T.—Recommended Thicknesses—Inches (Nominal)

H.G.—Heat Gain (B.T.U./Lin. Ft./Hr.)

DIMENSIONS — MUNDET SUPERGLAS PIPE INSULATION

IRON PIPE SIZES											
Nominal Pipe Size	O.D. of Pipe	½" Wall		¾" Wall		1" Wall (Nom.)**		1½" Wall (Nom.)**		2" Wall (Nom.)**	
		O.D.	Wall	O.D.	Wall	O.D.	Act'l. Wall	O.D.	Act'l. Wall	O.D.	Act'l. Wall
½"	.840	1.875	.52	2.375	.77	2.875	1.017	4.000	1.580	Write for Availabilities " " " " " " " " "	
¾"	1.050	2.063	.51	2.563	.76	2.875	0.912	4.000	1.475		
1"	1.315	2.313	.50	2.813	.75	3.500	1.092	4.500	1.593		
1¼"	1.660	2.688	.51	3.188	.77	3.500	0.920	5.000	1.670		
1½"	1.900	2.938	.52	3.438	.77	4.000	1.050	5.000	1.550	" "	" "
2"	2.375	3.375	.50	3.875	.75	4.500	1.062	5.563	1.594	6.625	2.125
2½"	2.875	3.875	.50	4.375	.75	5.000	1.062	5.563	1.344	6.625	1.875
3"	3.500	4.500	.50	5.000	.75	5.563	1.031	6.625	1.563	7.625	2.063
3½"	4.000	5.000	.50	5.500	.75	6.625	1.312	6.625	1.313	7.625	1.800
4"	4.500	5.500	.50	6.000	.75	6.625	1.062	7.625	1.563	8.625	2.063
4½"	5.000	6.000	.50	6.500	.75	7.625	1.312	7.625	1.313	8.625	1.813
5"	5.563	6.563	.50	7.063	.75	7.625	1.031	8.625	1.531	9.625	2.031
6"	6.625	7.625	.50	8.125	.75	8.625	1.000	9.625	1.500	10.750	2.063
7"	7.625	8.625	.50	9.125	.75	9.625	1.000	10.750	1.563	11.750	2.063
8"	8.625	9.625	.50	10.125	.75	10.750	1.060	11.750	1.563	12.750	2.063
9"	9.625	10.625	.50	11.125	.75	11.750	1.060	12.750	1.563	14.000	2.188
10"	10.750	11.750	.50	12.250	.75	12.750	1.000	14.000	1.625	15.000	2.125
11"	11.750	12.750	.50	13.250	.75	14.000	1.120	15.000	1.625	16.000	2.125
12"	12.750	13.750	.50	14.250	.75	15.000	1.120	16.000	1.625	17.000	2.125
14"	14.000	15.000	.50	15.500	.75	16.000	1.000	17.000	1.500	18.000	2.000

Sizes above 14" also available on special order

COPPER TUBE SIZES											
Nominal Pipe Size	O.D. of Pipe	½" Wall		¾" Wall		1" Wall (Nom.)**		1½" Wall (Nom.)**		2" Wall (Nom.)**	
		O.D.	Wall	O.D.	Wall	O.D.	Act'l. Wall	O.D.	Act'l. Wall	O.D.	Act'l. Wall
⅝"	0.625	1.625	.50	2.125	.75	2.875	1.120*	3.500	1.438*	Write for Availabilities *OD of Copper Tubing Insul. Conforms to Simplified Dimensional Standards ** Conforms to Simplified Dimensional Standards	
¾"	0.875	1.875	.50	2.375	.75	2.875	1.000*	4.000	1.563*		
1⅝"	1.125	2.125	.50	2.625	.75	2.875	0.875*	4.000	1.438*		
1⅜"	1.375	2.375	.50	2.875	.75	3.500	1.060*	4.500	1.563*		
1½"	1.625	2.625	.50	3.125	.75	3.500	0.938*	4.500	1.438*	Write for Availabilities *OD of Copper Tubing Insul. Conforms to Simplified Dimensional Standards ** Conforms to Simplified Dimensional Standards	
2⅝"	2.125	3.125	.50	3.625	.75	4.500	1.190*	5.563	1.719*		
2⅜"	2.625	3.625	.50	4.125	.75	4.500	0.940*	5.563	1.469*		
3⅝"	3.125	4.125	.50	4.625	.75	5.563	1.220*	6.625	1.750*		
3⅜"	3.625	4.625	.50	5.125	.75	5.563	0.969*	6.625	1.500*	Write for Availabilities *OD of Copper Tubing Insul. Conforms to Simplified Dimensional Standards ** Conforms to Simplified Dimensional Standards	
4⅝"	4.125	5.125	.50	5.625	.75	6.625	1.250*	7.625	1.750*		
5⅝"	5.125	6.125	.50	6.625	.75	7.625	1.250*	8.625	1.750*		
6⅝"	6.125	7.125	.50	7.625	.75	8.625	1.250*	9.625	1.750*		

Qualified insulation engineers located at Mundet branches and distributor-applicator locations are available to assist you with design and application recommendations to meet the needs of your particular insulation problem. Please call or write us for information.

MUNDET CORK CORPORATION

Insulation Division: 7101 Tonnelle Avenue, North Bergen, New Jersey

ATLANTA
339-41 Elizabeth St. N. E.
CHICAGO
35 E Wacker Dr
CINCINNATI 2
427 West 4th St.

DETROIT 38
14401 Prairie Ave.
HOUSTON 11
6601 Supply Row
JACKSONVILLE 2, FLA.
514 E. Bay St

KANSAS CITY 1, MO.
1210 W. 9th St.
LOS ANGELES
(Maywood): 6116 Walker Ave.
PHILADELPHIA 39
856 N. 48th St.

PORTLAND, ORE.
2435 N. Lombard St.
SAN ANTONIO
130 Lombrano St.
SAN FRANCISCO 7
440 Brannan St.

NEW YORK 17
331 Madison Ave

ST. LOUIS 9
3175 Brannon Ave.

Mundet's Expanded Polystyrene Board insulation is made in standard sizes, in thicknesses to meet low temperature requirements.

Available unpackaged in these sizes... Thicknesses: 1" through 8". Sizes: 12" x 36"; 18" x 36"; 18" x 72"; 24" x 36"; 36" x 36"; 36" x 72"; 12" x 72"; 24" x 72"; 36" x 48".

Available in tubes or cartons in these sizes... 12" x 36"; 18" x 36".

MUNDET'S Expanded POLYSTYRENE Board and Pipe Covering

PRODUCT and SPECIFICATION DATA

PRINCIPAL ADVANTAGES

• Mundet's Expanded Polystyrene Insulation has qualities not found in similar materials. It has extremely low conductivity, resistance to vapor transmission and moisture absorption, high compressive strength, is odorless, decorative, buoyant, light weight and durable for long lasting service. It can be readily cut and shaped by ordinary hand tools, power tools or heated electric wire.

Mundet's Expanded Polystyrene Pipe Covering is custom molded to specific sizes and thicknesses for precision fit under rigid manufacturing quality control.

INSULATION APPLICATIONS

Commercial cooler and freezer storage, refrigerator cars and truck trailer bodies, residential refrigerators and freezers, portable coolers, building perimeters, plaster base and cavity wall construction, refrigeration piping and equipment.

AVAILABILITY

In addition to the standard sizes of Mundet's Expanded Polystyrene shown, our method of manufacture enables us to furnish the material in any thickness from 1/4" thick to full 8" thick. Further, it can be furnished die cut, machine cut or molded to any size or shape on special order.

Mundet's Expanded Polystyrene "custom-molded" Pipe Covering is available in 1/2" to 20" I.P.S., and 3/8" to 4 1/8" O.D. for copper tubing in thicknesses from 1" to 2 1/2".

MUNDET'S EXPANDED POLYSTYRENE INSULATIONS EXCEL IN THERMAL CONSERVATION QUALITIES...

The following tables of recommended thicknesses are based on normal operating conditions and atmospheric temperatures.

Should conditions be considered abnormal with higher than normal temperatures, humidity, power cost and economics, it is suggested that the selected thickness be based on the calculations of all factors at hand.

Recommended Thicknesses For Cold Storage Rooms

Range of Temp.	Walls	Ceiling	Floor on Ground	Floor above Ground	Roofs
50° & above	2"	2"	0	2"	2"
49° to 35°	3"	3"	2"	3"	4"
34° to 20°	4"	4"	3"	4"	5"
19° to 10°	5"	5"	4"	5"	6"
9° to -10°	6"	6"	5"	6"	7"
-9° to -35°	8"	8"	7"	8"	9"
-36° to below					

Recommendations upon request

Recommended Thicknesses to Prevent Condensation on Piping

Nom. Pipe Size	*Nominal 1" Th.	*Nominal 1½" Th.	*Nominal 2" Th.	*Nominal 2½" Th.
½" - 1"	5	-45	-80	-130
1¼" - 2½"	10	-30	-65	-100
3" - 3½"	10	-20	-60	-80
4" - 6"	15	-10	-45	-65
8" - 12"	20	-5	-35	-60
14" - 18"	20	-5	-25	-55

*Exact thickness furnished upon request

Properties

		Regular	Self-Extinguishing
DENSITY	# per cu. ft.	1.2 Max.	1.2 Max.
THERMAL CONDUCTIVITY (("K" FACTOR) Mean Temperature	BTU/Hr./ft.²/°F/in. 32°F 50°F	.21 .23	.21 .23
TEMPERATURE LIMIT		175°F	175°F
*WATER ABSORPTION	(Immersed in water under 10' head for 48 hours # sq. ft. surface area)	.07	.06
*COMPRESSIVE STRENGTH	P.S.I.	16.0	16.0
*TENSILE STRENGTH	P.S.I.	40.0	21.0
*FLEXURAL STRENGTH	P.S.I.	34.0	24.0
WATER VAPOR TRANSMISSION	Permeance (grains/Hr./ft.²/in. th./in. Hg.) ASTM Dessicant Method	Less Than 2.0	Less Than 3.0

*Based on Test Specification MIL-P-19644

MUNDET'S EXPANDED POLYSTYRENE BOARD SPECIFICATIONS

GENERAL All surfaces to which Mundet's Expanded Polystyrene Board is to be applied shall be cleaned of dirt, dust, loose mortar, etc. Where necessary, they shall be made true and level.

All joints in double layer construction shall be broken both as to the adjacent layer and to preceding course. Where hot asphalt is used, masonry surfaces should be primed with asphalt primer. The asphalt primer should be allowed to dry prior to the application of the Board.

Bedding and finishing materials of the solvent type cannot be used in the application of Expanded Polystyrene due to their deteriorative effect on the material.

The bedding and finishing materials listed are basic types that are known to be compatible with Mundet's Expanded Polystyrene. Should other materials be considered, tests should be made to ascertain their effect on the material. Detailed recommendations on adhesives and finishes can be obtained from the Mundet branch office nearest you or from Mundet distributor-applicators.



RECOMMENDED BEDDING MATERIALS

INSULATION TO MASONRY

Portland Cement Mortar	**Flintkote 746
Asphalt Emulsions	**Insulgrip
**Enamelite 330	**American Bitumuls
*Hot Asphalt	Refrigeration Binder

INSULATION TO INSULATION

Portland Cement Mortar	**Flintkote 746
**Enamelite 330	**Insulgrip
*Hot Asphalt	

NOTE: *Recommendations covering type asphalt to be used and temperature control can be obtained from the nearest Mundet office or Mundet distributor-applicator.

**To insure proper use, get manufacturer's recommendations.



FINISHING MATERIAL

Portland Cement Plaster • Pre-mixed emulsion with sand and asbestos fiber • Fire Ban • Enamelite 330

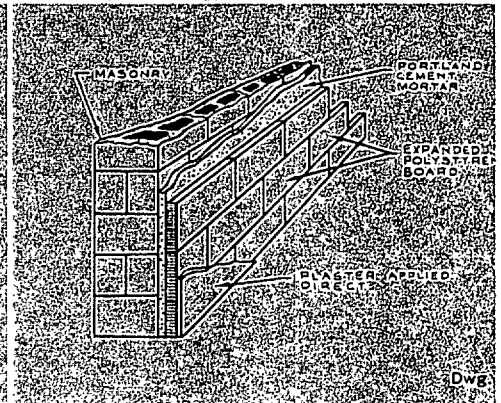
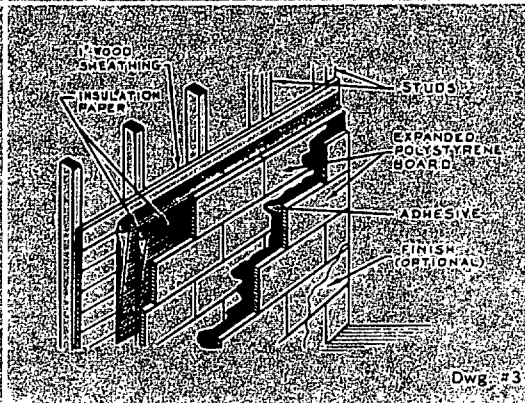
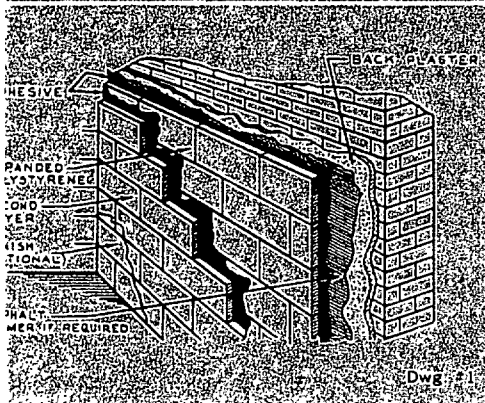
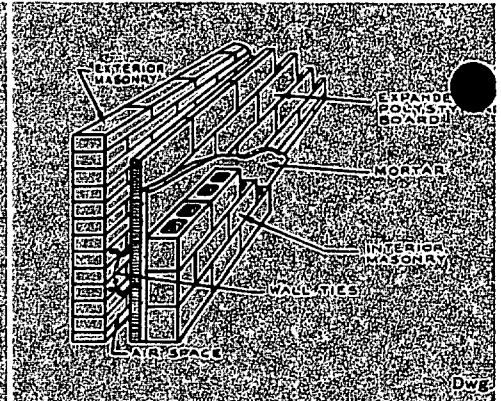
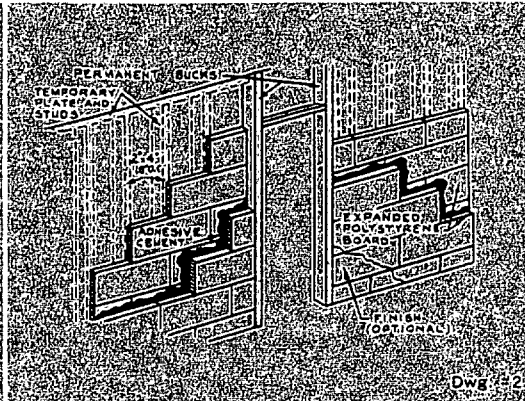


RECOMMENDATIONS FOR SPECIFIC APPLICATIONS

Consult with the nearest Mundet branch office, or with a Mundet distributor-applicator, if you need information not covered in the above. Our broad experience in the use of Mundet's Expanded Polystyrene insulation for varied uses is available to you for the most efficient and economical use of this versatile material.

RECOMMENDED APPLICATION SPECIFICATIONS for

If you have a particular problem in thermal conservation, Mundel engineers will be glad to give you specific recommendations for the most effective use of Mundel's Expanded Polystyrene insulation products.



WALLS

MASONRY (Dwg. #1)

One leveling coat of Portland cement plaster shall be applied over the surface of the masonry wall to insure a reasonably smooth surface. If insulation is to be erected in a bed of hot asphalt, the surface shall be primed with a brush coat of asphalt primer. Each layer of insulation shall be erected in a rolled on coat of hot asphalt. The second and other subsequent layers shall be additionally secured with treated hardwood skewers.

If the bedding material is a cold asphalt type, the priming may be omitted. Each layer of insulation shall be applied in a bed of adhesive, using either the push box method for coating the surface of the insulation or, preferably, by trowel application of a skim coat of adhesive to the masonry or the polystyrene surface, plus a skim coat on the face of the insulation being applied to provide full adhesive action. Skewers shall be used as specified above.

If Portland cement mortar is used as a bedding adhesive, the mortar shall be applied to the face of the insulation by use of a push box and shall be applied directly to the masonry or polystyrene surface, with each board being firmly tamped in place. Skewers shall be used as specified above.

SELF-SUPPORTING (Dwg. #2)

Temporary studding shall be erected in the manner indicated in dwg. #2. The first layer of insulation shall be erected with all joints sealed with approved adhesive and with each board toenailed to all the joining boards with treated hardwood skewers. Second layer shall be erected in the manner

similar to that specified above for erection in hot asphalt or cold adhesives. Studs shall remain in place until the opposite surface of the insulation has received the specified finish.

WOOD FRAME (Dwg. #3)

The wooden surface shall be covered with one or more layers of vapor-barrier type paper, securely tacked in place. First layer of insulation shall be erected either dry or, if desirable, in a bed of hot asphalt or cold asphalt adhesive and secured in place with galvanized wire nails. Second layer shall be installed in a manner similar to that specified above.

CAVITY WALL CONSTRUCTION

Approved thickness of insulation shall be installed in a manner similar to that in dwg. #4.

PLASTER BASE

Approved thickness shall be installed in a manner similar to that indicated on dwg. #5.

FLOORS (Dwg. #6)

The first layer of insulation shall be laid in a heavy bed of adhesive. The second and subsequent layers shall be laid either dry or in a light coating of adhesive. The top surface of the floor insulation shall be covered with either a 15 pound asphalt saturated felt or adhesive to serve as a protective surface until finished floor has been applied.

For freezers, the sub-floor shall be covered either with a vapor-barrier felt or with a heavy coat of asphalt primer prior to the erection application of the insulation.

CEILINGS

CONCRETE (Dwg. #7)

Treated wood furring strips shall be secured

to the bottom side of the ceiling slab secured in place either with expansion bolts and lag screws or with shot activated pins. If the insulation is to be erected in hot asphalt, the entire concrete surface and furring strips shall be primed with asphalt primer.

Each layer of insulation shall be installed in a bed of adhesive with the first layer being secured by toe-nailing the board to the furring strips and with the second layer being secured with galvanized wire nails driven into the furring strips. The course of the second layer shall be erected vertical to the line of the furring strips.

WOOD (Dwg. #8)

This application shall be made in the same manner as specified for wood walls.

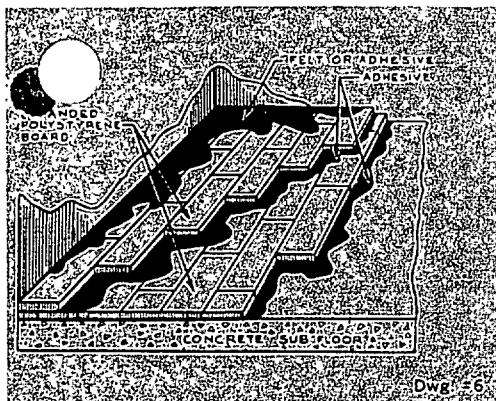
TEE IRON (Dwg. #9)

2" x 2" x 1/4" tee irons shall be erected on 12" spacings, secured in place either with 9 gauge wires anchored in the concrete slab above, or by 1/4" rods similarly secured. The first layer shall be erected between the tee irons with boards mitered so as to insure the bottom surface of the insulation being level with the bottom of the tee irons. The edges of the insulation shall be sealed with adhesive. The second and subsequent layers shall be installed against the underside of the first in a bed of adhesive and shall be additionally secured with hardwood skewers.

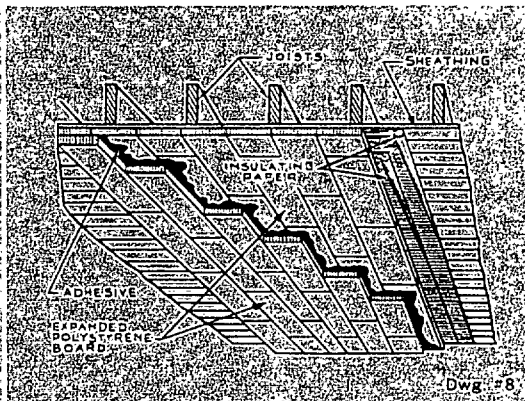
ROOF DECK (Dwg. #10)

Roof deck insulation shall be applied in a manner similar to that for all floor insulations, with precautions being taken on large areas not to seal insulation against roof deck, but to provide a "floating" roof insulation by application of one or more layers

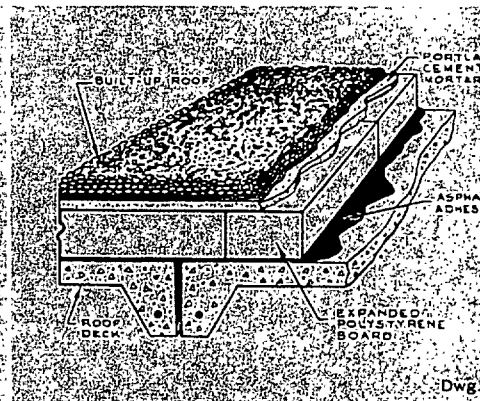
MUNDET EXPANDED POLYSTYRENE BOARD.....



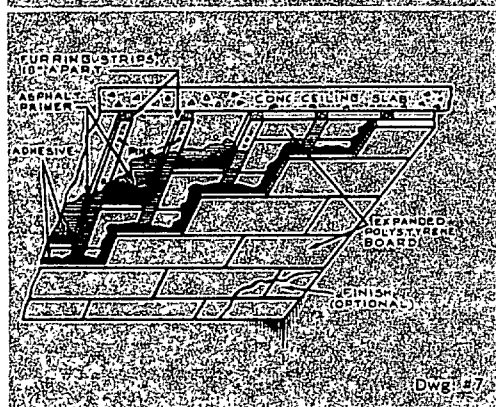
Dwg. #6



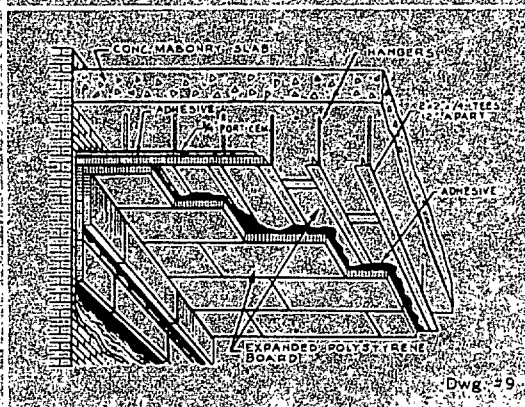
Dwg. #8



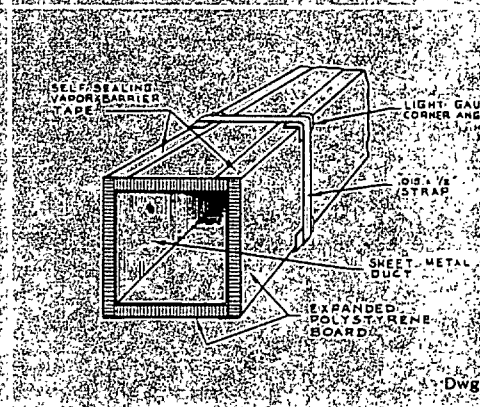
Dwg. #9



Dwg. #7



Dwg. #9



Dwg. #11

... pound asphalt saturated felt between roof deck and insulation, the top surface of the insulation being covered with a minimum of 3/4" thick Portland cement mortar before the installation of the built-up roofing by others.

DUCT INSULATION (Dwg. #11)

All sheet metal surfaces shall be cleaned of all loose construction materials. The board may be installed either in a bed of approved emulsion or resinous type adhesive or may be secured by use of mechanical nail type fasteners by impinging the board over the nail and securing the board in place with a speed washer. On large ducts, where required, light weight galvanized strapping shall be used to additionally secure the insulation in place, using metal angles at all corners to protect the edges of the insulation.

If finish is required, joints shall be sealed with a 3" wide pressure sensitive vapor barrier type tape, or with a 3" wide glass fabric which shall be installed in a tack coat of water soluble or resinous base emulsion, followed by a second coat of emulsion or adhesive over the surface of the fabric.

If a finish is required indoors, an 8 oz. canvas jacket may be installed over the insulation, imbedded in a continuous brush coat of non-toxic emulsion type adhesive.

If an asbestos or a Portland cement finish is desired, 1" poultry netting shall be applied over the insulation, securely laced in place. A tack coat of cement shall be applied over the netting and allowed to dry, followed by a second coat, trowelled smooth.

If asbestos cement is used, Portland cement shall be mixed with the asbestos for both layers of the application.

OUTDOORS

The entire surface of the insulation shall be coated with a tack coat of dispersion type emulsion. Woven glass fabric shall be imbedded in this coating while the emulsion is still tacky. After the first coat has dried and set, a second coat shall be trowelled over the fabric, and given a smooth finish.

ALTERNATE

A _____ # (asbestos asphalt) saturated felt shall be applied over the insulation surface, with all joints overlapping not less than 3" and with the longitudinal joint lapped to insure a water shed. All joints shall be sealed with a suitable adhesive. 1/2" x .015 galvanized bands shall be applied over the felt on 8" centers, machine tightened and sealed.

SPECIAL NOTE

Apply no sealer, mastics, or coatings over the polystyrene surface without continuous woven glass fabric reinforcement. All such coatings shall be applied in a tack coat and finish coat.

Small ducts having a maximum dimension of 12" may be insulated by securing the insulation in place by means of a high tensile strength pressure sensitive tape, installed around the duct on 9" to 12" centers. All joints shall be sealed as specified above.

Plenums, fan casings and other rectangular sheet metal surfaces may be insulated in a similar manner.

PERIMETER INSULATION

Mundet's expanded polystyrene board, as perimeter insulation blocks out cold and dampness to provide warmer, dryer construc-

tion in modern homes designed for living comfort.

Perimeter insulation eliminates solid masonry path slab to foundation.

MUNDET'S EXPANDED POLYSTYRENE BOARD ISOLATES HEATING DUCTS FROM GROUND TEMPERATURES IN PERIMETER HEATING — PERMITTING FUEL SAVINGS AS A RESULT OF LOWER HEAT LOSS.

FINISHES

GENERAL

In the event an asphalt emulsion is used as a finish, all joints shall be strapped with a 3" wide glass fabric imbedded in emulsion. After this coat of emulsion has dried, a heavy trowel coating of emulsion shall then be applied over the entire surface to a minimum of 1/4" wet or 1/8" dry.

If Portland cement plaster is specified as a finish, the plaster shall be applied in two courses. The first or scratch coat shall be applied approximately 1/4" thick, followed by the application of a second 1/4" coating which shall be given a float or steel trowel finish and then scored in squares of 30" to 36", with the scored mark penetrating the full depth of the finished course.

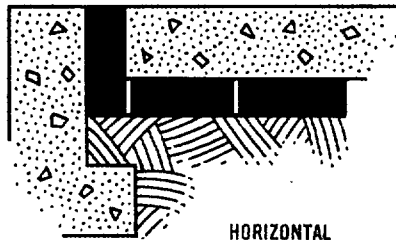
Where a paint finish may be specified for a ceiling finish, precaution shall be taken that any aluminum paint used shall have an alcohol solvent, and any other type used shall have a solvent that is compatible to polystyrene insulation.

If enamel or other types of approved finishes are applied, they shall be installed in two courses, with the finish coat being not less than 1/8" dry and with precautions being taken to strip all joints in a manner similar to that specified above for asphalt emulsion.

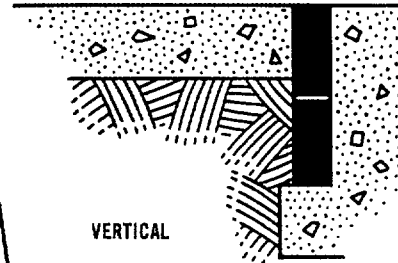
MUNDET'S EXPANDED POLYSTYRENE BOARD...PERIMETER INSULATION

HIGHEST PERFORMANCE IN THERMAL CONSERVATION MAKES BUILDINGS WARMER — DRYER, ADDS TO COMFORT.

MUNDET'S EXPANDED POLYSTYRENE BOARD, as perimeter insulation blocks out cold and dampness to provide **warmer, dryer** construction in modern homes designed for **living comfort**. Perimeter Insulation eliminates solid masonry path slab to foundation.

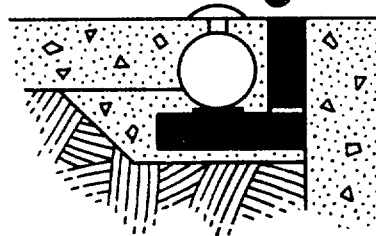


HORIZONTAL



VERTICAL

MUNDET'S EXPANDED POLYSTYRENE BOARD, isolates heating ducts from ground temperatures in perimeter heating thus **saving of fuel bills** due to **lower heat loss**.



MUNDET CONTRACT INSTALLATIONS

It is recognized that proper installation of insulation products is one of the most important factors in insuring a permanent, trouble-free job. To help you meet this problem most satisfactorily and at lowest cost for required performance, we provide Mundet Contract Installation to be responsible for all details from recommendations and estimates to installation. Mundet branches and distributor-applicator engineering and estimating organizations are backed up by highly trained field personnel. We are prepared to schedule all insulation work with other related crafts to insure completion of the project on schedule. Finally—you are protected by the Mundet guarantee: The Company unqualifiedly guarantees that its material and workmanship are of the best and agrees to replace, without cost to the customer, any defective material that may be chargeable to inferior quality or workmanship as indicated in its contract form.

MUNDET'S EXPANDED POLYSTYRENE PIPE COVERING SPECIFICATIONS

PIPING

After piping has been tested, approved, cleaned and dried, it shall be insulated with _____ thickness (See page 2 — Recommended Thicknesses).

All contact joints shall be sealed with Mundet's joint sealer. The pipe covering shall be applied with all joints butted closely and firmly together, after which it shall be secured with wire or bands on not more than 6" centers.

All longitudinal joints on horizontal piping shall be in a vertical position. End joints shall be staggered.

FITTINGS

Fittings shall be shop or field fabricated from Mundet's Expanded Polystyrene Pipe Covering of the same thickness as that used on the adjoining piping. All joints shall be sealed with Mundet's joint sealer and applied with joints butted closely and firmly together. They shall then be secured with wire or bands.

SUPPORTS

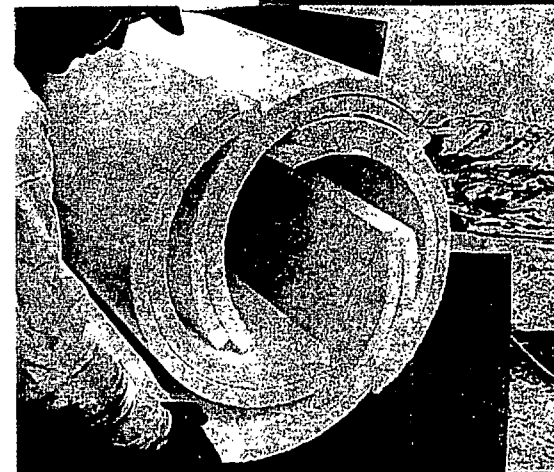
Piping shall be supported in every case outside of the insulation and shall be protected by carefully fitted metal shields of a size designed to support the weight of the insulated line.

PROTECTIVE FINISH

Where a finish other than the natural finish of Mundet's Expanded Polystyrene is desired, an 8 oz. canvas jacket may be used. This jacket can be either pasted or sewn in place.

Where Mundet's Expanded Polystyrene insulated lines are exposed to the elements or mechanical abuse, a protective jacket consisting of either roofing felt, galvanized iron or aluminum jacketing shall be applied over the insulation, using acceptable methods for securing these jackets in place.

Pictures at right show installation (1 and 2) of Mundet's Expanded Polystyrene Pipe Covering for the new Education Building, International Business Machines Corporation, Poughkeepsie, N. Y. Other views (3 and 4) show Mundet's Expanded Polystyrene Pipe Covering being applied to pipelines at New York International Airport, New York City.



MANY OTHER USES FOR MUNDET'S EXPANDED POLYSTYRENE

Mundet's Expanded Polystyrene has many practical uses, apart from insulation. Due to its attractive appearance, easy workability, lightweight and other remarkable qualities (see lab report data on physical characteristics — page 2) the usefulness of this modern material is being extended constantly in many commercial and industrial fields. It is already in extensive use for the following applications:

FLOTATION

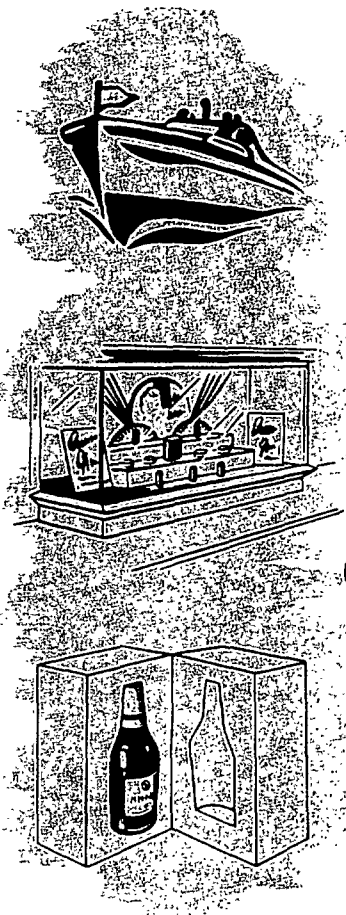
As a flotation material, Mundet's Expanded Polystyrene Board has many unusual characteristics not found in similar materials. It is lightweight . . . has low moisture absorption . . . buoyancy factor of 59-60 lbs. per cu. ft. Useful in pleasure boat construction, life boats, life buoys, life preservers and many other marine uses.

DECORATION

For window displays, holiday decorations, floral displays and general decorating, Mundet's Expanded Polystyrene Board responds readily to the hand and mind, evolving in ingenious forms according to the purpose and need of the user.

PACKAGING

Interesting and novel packaging ideas can be created for cosmetics, pharmaceuticals, liquor, food, glassware, toys, tools and a host of other items. Mundet's Expanded Polystyrene Board can be molded or fabricated with ease to special shapes and sizes. The material can be furnished in thicknesses from 1/4" to 8".



MUNDET CORK CORPORATION

Insulation Division: 7101 Tonnelle Avenue, North Bergen, New Jersey

ATLANTA
339-41 Elizabeth St. N. E.

CHICAGO
35 E. Wacker Dr.
CINCINNATI 25
3118-24 Spring Grove Ave.

DETROIT 38
14401 Prairie Ave.
HOUSTON 11
6601 Supply Row
JACKSONVILLE 2, FLA.
514 E. Bay St.

NEW YORK 17
331 Madison Ave.

LOS ANGELES
(Maywood): 6116 Walker Ave.
PHILADELPHIA 39
856 N. 48th St.
PORTLAND, ORE.
2435 N. Lombard St.

ST. LOUIS 9
3176 Brannon Ave.
SAN ANTONIO
130 Lombardo St.
SAN FRANCISCO 7
440 Brannan St.



SUBSIDIARIES

E. J. Eddy, Inc.
155 Erie Street
Buffalo 2, New York

E. J. Eddy, Inc.
1040 Jay Street
Rochester 11, New York



MUNDET'S SUPERTEX

GLASS FIBER

DUCT LINING

DESCRIPTION

Mundet's Supertex Glass Fiber Duct Liner is a strong, resilient, lightweight, semi-rigid insulation. It consists of fine, flame-blown, inorganic glass fibers reinforced with chopped glass textile fibers; bonded with a thermosetting resin. Supertex Duct Liner is coated on one side with black-pigmented vinyl to resist possible surface erosion in high velocity systems.

PROPERTIES and CHARACTERISTICS

Countless air cells formed by glass fibers make Mundet's Supertex Duct Liner highly effective in absorbing sound and resisting heat transfer.

The glass fibers do not support combustion nor absorb moisture. The liner material does not rot, settle or sag nor attract vermin. It is odorless and cannot absorb odors.

Additional properties and characteristics are . . .

- High tensile strength
- Cuts easily with ordinary knife or scissors
- Requires no precision measuring or fitting — no special skills or tools
- Quickly applied with standard fastening devices and adhesives
- Readily conforms to irregular surfaces
- Can be formed in the brake with the sheet metal
- Lightweight — easy and pleasant to handle—no protective clothing required

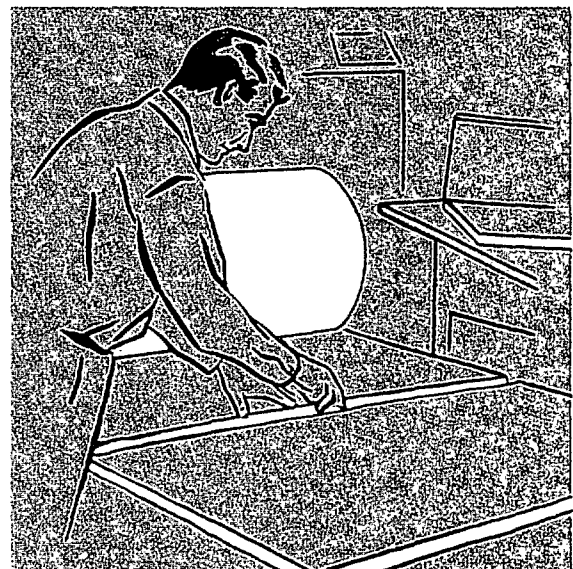
PRODUCT DATA

Mundet's Supertex Duct Liner is manufactured in 1½- and 3-pound densities. For higher air velocities where duct liner is subject to constant compression cycles, 3-pound density is recommended. The liner comes in ½" and 1" thicknesses . . . in 36" and 48" widths. It is coated on one side with black-pigmented vinyl and packaged in rolls.

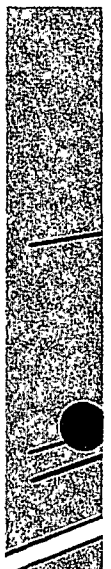
STANDARD ITEMS			
Density	Thickness	Widths (Inches)	Roll Lengths (Feet)
1.5	½"	36, 48	100
1.5	1"	36, 48	50
3.0	½"	36, 48	100
3.0	1"	36, 48	50

ACOUSTICAL PERFORMANCE

Mundet's Supertex Duct Liner is highly efficient in the 250 to 4,000 cps range, where most noise problems occur. In the operation of warm-air furnaces and air conditioning units, noises within this range are frequently encountered. The excellent efficiency of Supertex Glass Fiber Duct Liner is



Cut liner to desired size and shape with ordinary knife.



Liner bends

indicated by the values of sound-absorption coefficients shown in the table below.

SOUND-ABSORPTION COEFFICIENTS*								
Density (Lbs./Cu. Ft.)	Thickness (Inches)	125	250	500	1,000	2,000	4,000	NRC
1 1/2	1/2	.13	.54	.42	.66	.73	.75	.59
1 1/2	1	.13	.61	.63	.89	.87	.83	.75
3	1/2	.09	.47	.40	.71	.80	.81	.60
3	1	.16	.66	.73	.99	.92	.85	.83

*Tests above were made using the No. 6 mounting, which is the standard duct liner mounting where the insulation is laid on 24-gauge sheet metal.

THERMAL PERFORMANCE

Most effective insulation against the transfer of heat is provided by Mundet's duct liner material due to the thousands of tiny dead air cells formed by fine glass fibers. Thermal conductivity coefficients for selected densities at 75°F mean temperature are given in the following table:

THERMAL CONDUCTIVITY	
Density (Lbs./Cu. Ft.)	k
1 1/2	.245
3	.225

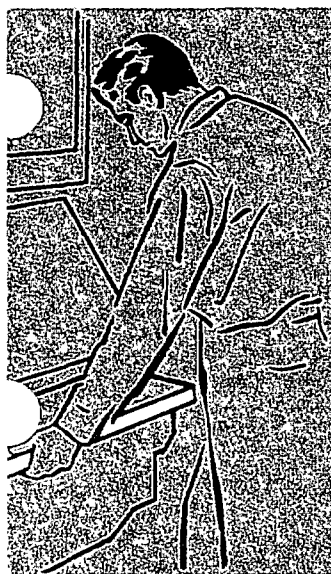
Thermal conductivity k at 75°F. mean temperature per A.S.T.M. designation = C177-45.

METHODS OF APPLICATION

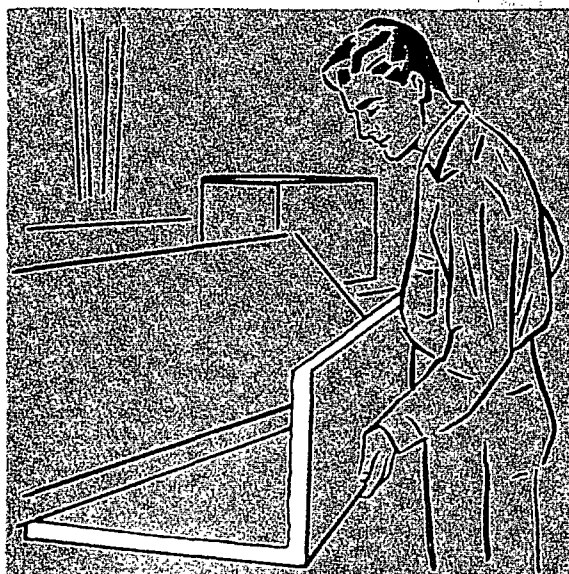
It is customary, where only acoustical treatment is required, to line the duct outward from the blower for a length equal to at least 10 times the wide dimension of the duct. By this method, a rectangular duct measuring 10" x 20" would be lined a distance of 200". In areas where there is a significant temperature difference between the inside and the outside of the duct, it is recommended that Supertex be applied to reduce heat loss or gain, as well as condensation.

The liner should be applied to the metal with an adhesive before the duct section is formed in the brake. On large ducts, and in high velocity systems, Supertex should be installed with metal clips, in addition to the adhesive.

In the application of Supertex, precision cutting and fitting (often necessary with rigid insulation) is not required. This material may be installed in ready-made ducts or fittings by the wrap-in method, using regular adhesives. This simple installation method does not lessen the high efficiency of Mundet's Supertex Glass Fiber Duct Liner.



ed duct without breaking.



Form in brake after duct liner has been fastened to metal.



Duct is completed conventionally, ready for easy installation.

SPECIFICATIONS

1. INSULATING MATERIAL—ACOUSTICAL

(with trade names)

a. For 3-pound density

All air ducts to be acoustically treated shall be lined with black-vinyl-coated Supertex Duct Liner of 3-pound-per-cubic-foot density, in thicknesses shown on drawings, as manufactured by Mundet Cork Corp., or approved equal. NRC for $\frac{1}{2}$ " shall be .60; NRC for 1" shall be .83. Coated side to face air stream.

b. For 1½-pound density

All air ducts to be acoustically treated shall be lined with black-vinyl-coated Supertex Duct Liner of 1½-pound-per-cubic-foot density, in thicknesses shown on drawings, as manufactured by Mundet Cork Corp., or approved equal. NRC for $\frac{1}{2}$ " shall be .59; NRC for 1" shall be .75. Coated side to face air stream.

2. INSULATING MATERIAL—ACOUSTICAL

(without trade names)

a. For 3-pound density

All air ducts to be acoustically treated shall be lined with a resilient-type, coated glass-fiber duct liner of 3-pound-per-cubic-foot density and an average fiber diameter of approximately 3 microns, or approved equal. NRC for $\frac{1}{2}$ " shall be .60; NRC for 1" shall be .83. Coated side to face air stream.

b. For 1½-pound density

All air ducts to be acoustically treated shall be lined with a resilient-type, coated glass-fiber duct liner of 1½-pound-per-cubic-foot density and an average fiber diameter of approximately 3 microns, or approved equal. NRC for $\frac{1}{2}$ " shall be .59; NRC for 1" shall be .75. Coated side to face air stream.

3. METHODS OF APPLICATION

a. Method of Application

(specification)

Insulation shall be applied to flat metal sheet with (brand name or type) adhesive and formed with the metal in the brake. Wide ducts (over ____" width or breadth) are to have duct liner secured at top with ($\frac{1}{8}$ " stove bolts) (sheet metal screws and washers) (adhesive-attached metal fasteners) (welded studs) on ____ inch centers in addition to adhesive. All projecting ends of fasteners to be cut off virtually flush. Coated side of duct liner must face air stream. All exposed edges are to be coated with adhesive.

b. Method of Application

(specification)

Insulation shall be applied in cut-to-size pieces fastened to the interior of the duct with (brand name or type) adhesive. Wide ducts (over ____" width or breadth) are to have duct liner secured at top with ($\frac{1}{8}$ " stove bolts) (sheet metal screws and washers) (adhesive-attached metal fasteners) (welded studs) on ____ inch centers in addition to adhesives. All projecting ends of fasteners to be cut off virtually flush. Coated side of duct liner must face air stream. All exposed edges are to be coated with adhesive.

MUNDET CORK CORPORATION

Insulation Division: 7101 Tonnelle Avenue, North Bergen, New Jersey

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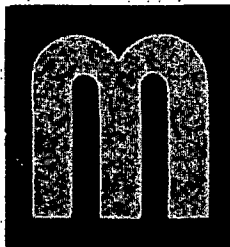
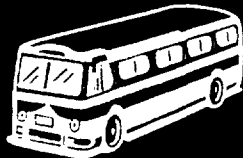
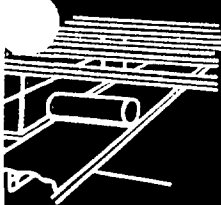
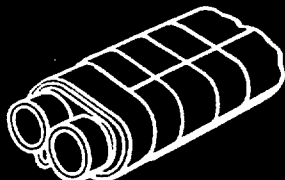
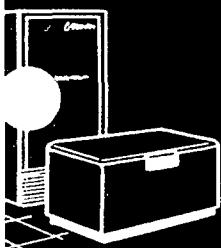
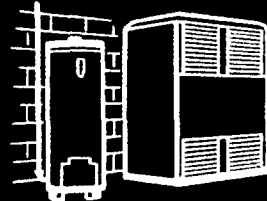
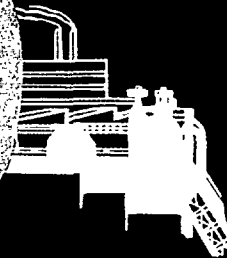
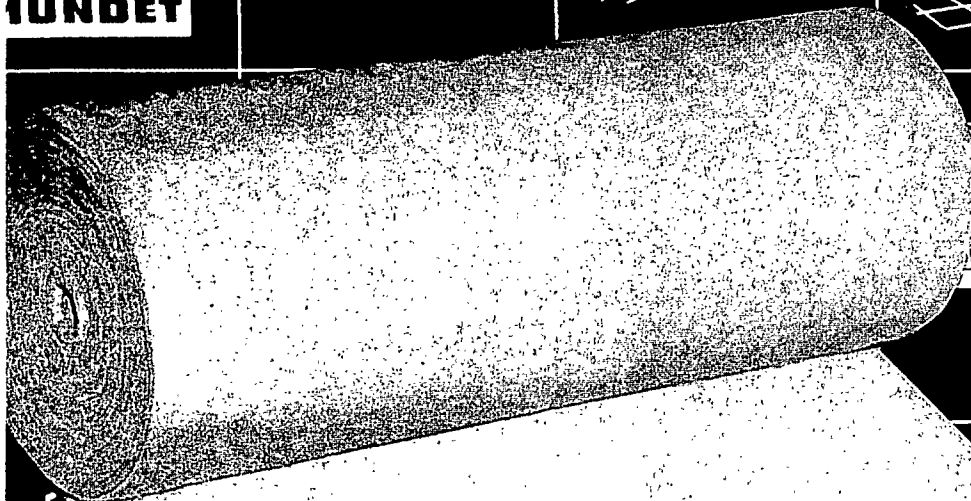
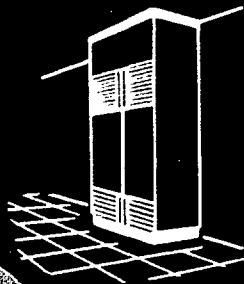
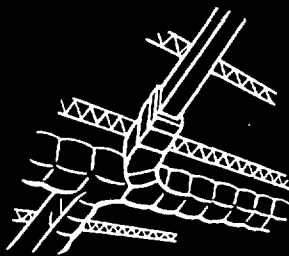
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PHILADELPHIA 39
856 N. 48th St.

ST. LOUIS 9
3176 Brannon Ave.

PORTLAND, ORE.
2435 N. Lombard St.
SAN ANTONIO
130 Lombardo St.
SAN FRANCISCO 7
440 Brannan St.



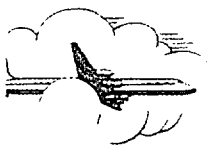
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MUNDET



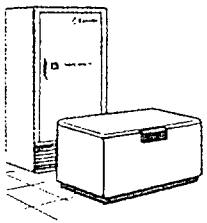
MUNDET

**SUPERFINE
GLASS FIBER
INSULATION**

... A Remarkable Insulating
Material Combining Economy
with High Thermal Efficiency



for
AIRCRAFT
Passenger
Temperature
and Sound
Comfort



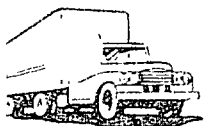
for
**REFRIGERATORS
and HOME
FREEZERS**
Insulates
Critical Areas



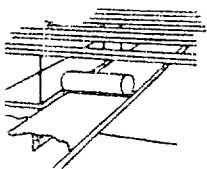
for **METAL
BUILDINGS**
Reduces
Heating Costs
Absorbs
Noise



for **RAILWAY
CARS**
Efficient
Insulation
Resists
Settling



for
**REFRIGERATED
TRUCKS and
TRAILERS**
Protects
Contents
Saves Weight



for
**ACOUSTICAL
CEILING
Blankets**
Absorb Noise

MUNDET'S SUPERFINE GLASS FIBER INSULATION

This modern low-density blanket type insulation provides an exceptionally versatile and effective thermal shield of fine glass fibers. A multitude of microscopic dead air cells assure a very high thermal efficiency and sound absorption qualities. Mundet's Superfine Glass Fiber Insulation is specified where maximum thermal and acoustical efficiency are required for minimum space. High tensile strength, resiliency, ease of handling, cutting and fitting serve to reduce application costs.

This newest addition to Mundet's line of industrial insulations consists of extremely fine glass fibers, flame-blown at high velocities to normal diameters of less than .00015", and bonded with a thermosetting of phenolic resin. Only glass of the highest quality is used as a base for this material. The molten glass, drawn through minute orifices, is elongated to diameters 30 times finer than a human hair. Millions of these superfine glass fibers, after spray treatment with a binder, are fabricated to form resilient, lightweight insulation blankets.

SPECIAL PROPERTIES—

- **High Thermal Efficiency** . . . Up to 25% greater heat savings can be attained than those afforded by equal thicknesses of most rigid insulations.
- **Low Space Requirements** . . . Mundet's Glass Fiber Insulation requires less thickness for most jobs, permitting smaller, more compact design or streamlining.
- **Ease of Handling in Application** . . . Superfine . . . Super-soft . . . Feather-light . . . Mundet's thermal blanket material handles easily and cleanly for maximum ease of application. Cuts readily with a knife.
- **Economical Storage** . . . This resilient, airy insulating material is compressed approximately 4-to-1 as it comes off the production line and is wrapped into compact rolls requiring little storage space for warehousing and shipping.
- **Clean, Sanitary** . . . The inorganic glass fibers used in this insulation do not support fungi or bacteria, rodents, vermin or other infestation.

Other qualities of this versatile durable material are its resistance to oil, grease and most acids. The glass fibers are incombustible and moisture-resistant. Efficiency is not affected by contact with water.

A Remarkable Insulating Material Combining Economy with High Thermal Efficiency

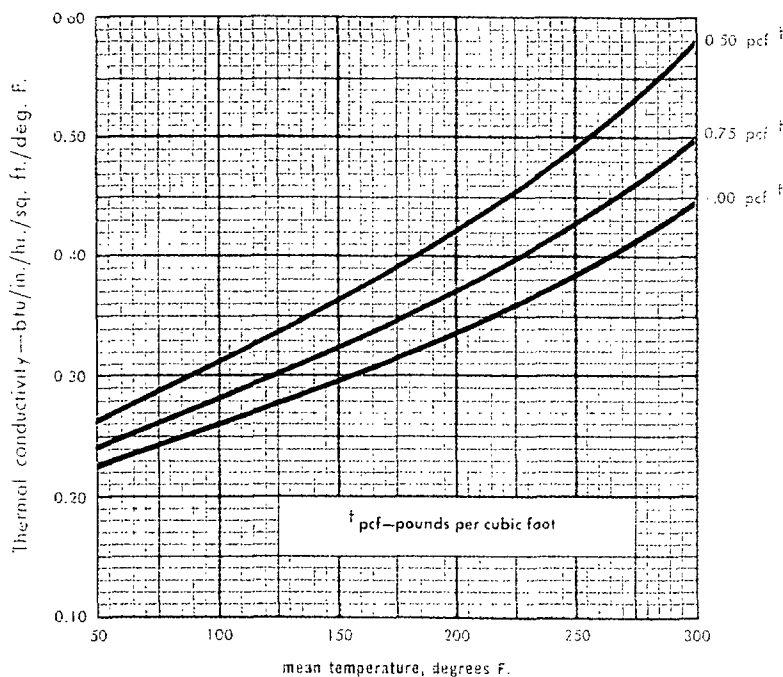
THERMAL PERFORMANCE

Thousands of microscopic dead air cells give Mundet Superfine Glass Fiber Insulation remarkable efficiency as a thermal insulator.

This insulation is specially efficient in applications requiring from sub-zero temperatures to approximately 400°F. The graph shows k factors of Mundet Glass Fiber Insulation in various densities and mean temperatures.

AVERAGE THERMAL CONDUCTIVITIES AT VARIOUS MEAN TEMPERATURES EXPRESSED AS k FACTOR*

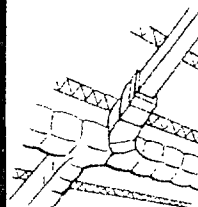
Graph below shows k factors of Mundet's Superfine Insulation in various densities and in a range of mean temperatures.



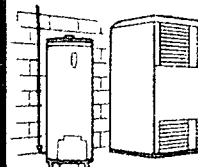
ACOUSTICAL PERFORMANCE

Mundet Glass Fiber Insulation has high efficiency as a sound absorber in the range from 250 cps to 4000 cps. It serves to screen out noises most frequently encountered in warm-air furnaces, air conditioning units, aircraft, automobiles and similar applications, and in most types of buildings.

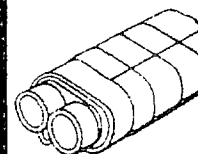
for
DUCT WRAP
and LINER
Insulates
Against Heat
Loss or Gain
Reduces
Noises Thru
Duct



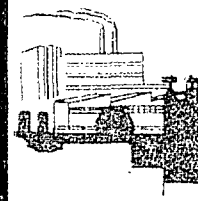
for HEATING
UNITS
Reduces Heat
Loss and
Reduces Noise



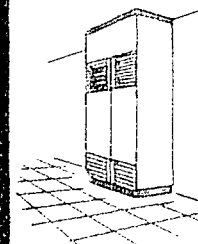
for
NESTED PIPES
and STEAM-
TRACED LINES
Wraps
Easily
Insulates
Effectively



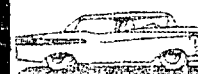
for
INDUSTRIAL
BUILDINGS
Thermal
Conservation



for AIR
CONDITIONERS
Reduces
Operating
Sounds



for
PASSENGER
CARS
Reduces
Unwanted Heat
and Noise





The Insulation of Countless Uses...

Easy to store . . . easy to work with . . . Mundet's Glass Fiber Insulation is:

- sound absorbent
- light weight
- resilient
- flexible
- easily handled
- moisture resistant
- fire and acid resistant

It is recommended for heating and air-conditioning systems, industrial and commercial buildings appliances, motor vehicles, industrial equipment, aircraft, railway cars and ships.

We suggest that you get in touch with us if you have a thermal insulating problem. Our engineers will be glad to submit recommendations covering applications of Mundet Superfine Glass Fiber Insulation for your special requirements.

Mundet Superglas Pipe Insulation and Mundet Supertex Glass Fiber Duct Liner are complementary products. Descriptive bulletins for both are available on request.

Mundet's Glass Fiber Insulation cuts easily with an ordinary knife or scissors to any size or shape. It wraps tightly around curved surfaces and fits into irregular spaces.

Mundet offers a full line of Industrial Insulations covering all temperature ranges from minus 200°F to plus 1900°F

MUNDET CORK CORPORATION

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3118-24 Spring Grove Ave.

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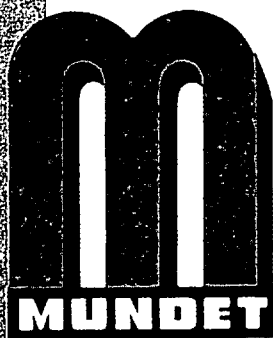
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SUBSIDIARIES

E. J. EDDY, Inc.
155 Erie Street
Buffalo 2, New York

E. J. EDDY, Inc.
1040 Jay Street
Rochester 11, New York





MUNDET HIGH TEMPERATURE INSULATIONS

MUNDET CORK CORPORATION

Insulation Division • NORTH BERGEN, NEW JERSEY

Mundet's line of High Temperature insulations has been carefully selected to provide products that give the lowest cost application, a durable long life job with the best economy. These insulations are for use from 600° F to 1900° F. To withstand this service over long periods of time, the composition has been selected especially to favor resistance to high heat for maximum efficiency. It is therefore recommended that these products be applied with multiple layers; the high temperature insulation used for the inner layer to reduce the temperature on the outside surface to a point where the more efficient insulation can be applied in the outer layer. To accomplish the desired results under certain conditions, three or more layers may have to be used.

BROKEN JOINT CONSTRUCTION

The two or more layer application suggested above is generally referred to in the insulation industry as "Broken Joint Construction" since it permits all seams, longitudinal as well as butt seams, to be staggered. This prevents any air coming in contact with the hot pipe. It is a necessity on high temperatures from 750° F up to counteract the effect of larger gaps occurring between sections due to the difference between the coefficient of expansion of the metal pipe and the insulation. The metal expands at a higher rate than the insulation.

TRI▲CALITE INSULATION

For all High Temperatures up to 1200° F.

This is the latest and most modern of all high temperature molded insulations. Its range of efficiency makes it useful for temperatures at 300° F as it does at 1000° F or 1200° F. It may or may not be used as an inner layer with the efficient 85% magnesia used on the outside as indicated by the requirements of the job or the desired economy of application.

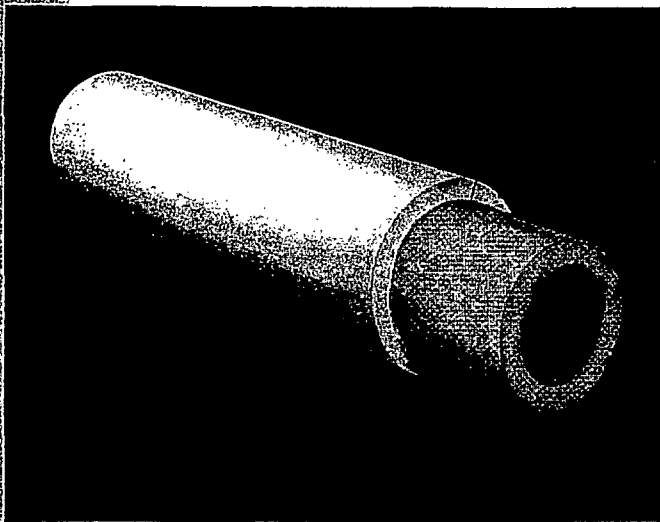
Mundet "Tri-Calite" is a hydrous calcium silicate with asbestos fibers added to provide better flexibility and working characteristics. It is lightweight, strong and efficient. It is chemically inert and will not cause corrosion to ordinary steel or iron surfaces.

Made in flat blocks 6" x 36" and 12" x 36"—in thicknesses from 1" to 3". Also in pipe covering form—sectional up to 18" x 2" thick and curved segments for pipe sizes up to 33" O.D.

A major advantage provided by "Tri-Calite" is the unique manner of cementing the calcium silicate inner layer into an 85% magnesia outer layer. This combination is available for all pipe sizes and thicknesses in which these products are made in sectional form. Application on pipes is speeded by the use of a single layer material on pipes carrying temperatures above the 85% magnesia range; the highest efficiency is obtainable by combining magnesia with its very low conductivity factor with the excellent insulation value of the higher temperature "Tri-Calite;" warehouse stocks can be reduced by carrying this combination product that covers a range of temperatures up to 1200° F. No higher price is charged for this combination covering, named "Trica-Mag," than for a comparable thickness of the individual layer.

TRICALITE INSULATION

continued...

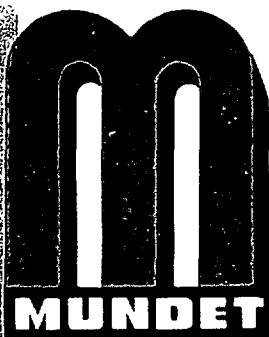


View shows how an inner layer of Mundet TRI-CALITE pipe covering can be used inside an outer layer of Mundet "custom-molded" 85% Magnesia. The low conductivity factor of Magnesia, thus combined with the excellent insulating qualities of TRI-CALITE, provides a most efficient temperature barrier for higher ranges up to 1200°F. This combination, called "TRICA-MAG", is available for all standard pipe sizes and thicknesses.

Tri-Calite insulation blocks are made in standard sizes, 6" x 36"; thicknesses 1" to 3". Tri-Calite is a remarkably durable and efficient insulation, and provides economical protection for a wide range of industrial temperatures.



Tri-Calite Pipe Covering is offered in sections 36" long. The material is supplied with a cotton jacket on pipe sizes where outside dimensions are not in excess of 14.136", without extra charge. Cotton jackets can be provided for larger sizes at additional cost.



TRICALITE PHYSICAL PROPERTIES

continued...

CONDUCTIVITY:

Mean Temp. Deg. F

Conductivity

200	.415
300	.445
400	.490
500	.515
600	.530
700	.570
800	.630
900	.690

The above conductivities are expressed as b.t.u. per inch/thickness per sq. ft./per hour/per degree F. Temperature difference.

DENSITY:

Average 12 lbs. per cubic foot

MODULUS OF RUPTURE:

Approximately 75 lbs. per sq. in.

COMPRESSIVE STRENGTH:

(5% deformation) — Approximately 165 lbs. per sq. in.
After boiling for 24 hours (tested while still wet) approximately 50% of the dry strength.

MOISTURE ABSORPTION:

(Oven-dried specimen) subjected to 90% relative humidity
— less than 1% by volume.

AFTER HEAT AT 1200° F FOR SIX HOURS

LOSS IN WEIGHT:

Approximately 10%

LINEAR SHRINKAGE:

1 to 2%

Complete Service for Efficient Thermal Conservation...

MUNDET INDUSTRIAL INSULATIONS INCLUDE...

in addition to the insulations described
in this bulletin:

- "CUSTOM-MOLDED" 85% MAGNESIA
- MINERAL WOOL PIPE COVERING
- AIR CELL
- WOOL FELT
- ANTI-SWEAT
- LIGHT DUTY CORK
- MEDIUM DUTY CORK
- HEAVY CORK
- EXPANDED POLYSTYRENE
PIPE COVERING AND SHEETS

Representative applications of Mundet Insulating Products include Chemical Processing; Power Plants; Refineries; Scientific Testing Laboratories; Atomic Energy installations; Ships and Storage Terminals; Heating; Refrigeration and Air Conditioning. Information on any of our insulation products sent promptly on request.

GUARANTEE The Company unqualifiedly guarantees that its material and workmanship are of the best and agrees to replace, without cost to the customer, any defective material that may be chargeable to inferior quality or workmanship as indicated in its contract form.

MUNDET CORK CORPORATION

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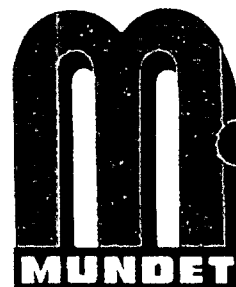
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514 E. Bay St.

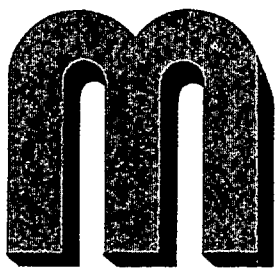
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856 N. 48th St.
SAN ANTONIO
130 Lombrano St.
SAN FRANCISCO 7
440 Brannan St.

In Canada: Mundet Cork & Insulation, Ltd., 35 Booth Ave., Toronto





CORK PIPE COVERING LIST PRICES

Effective September 1, 1956

MUNDET CORK CORPORATION

Insulation Division — 7101 Tonnelle Ave.

NORTH BERGEN, NEW JERSEY



CORK PIPE COVERING

for Low Temperature Pipe Lines

LIGHT DUTY THICKNESS • MEDIUM DUTY THICKNESS
HEAVY DUTY THICKNESS • SPECIAL WALL THICKNESS

1. Cork pipe covering and fitting covers shown in blue are for stock items; those shown in red are for non-stock items.
2. For reducing fittings where the difference in outlets is not greater than two pipe sizes (for example a tee 2" x 1½" x 1¼") a fitting cover for the largest size pipe will be shipped at the list price shown. Where the difference is greater than two pipe sizes, we will furnish a fitting of the exact outlets at the list price for the largest outlet size.
3. Long Turn, Long Radius and Long Sweep fittings are all non-stock in screwed and flanged for iron pipe sizes. In weld and sweat fittings, they are stock items. In all instances they take the same list price of the respective standard, ammonia, extra heavy, weld and sweat fittings.
4. Sweat Valves are non-stock and take same list price as standard valves.
5. Special Fitting Covers — refer to page 5 to determine list prices.
6. Special Wall Thickness Fitting Covers — refer to page 5 to determine list prices.
7. List prices for covering and fitting covers include sundry items for application.

IRON PIPE SIZE INCHES	IRON PIPE COVERING PER LINEAL FOOT			SPECIAL WALL THICKNESS					COPPER TUBING PIPE SIZE INCHES	COPPER TUBING COVERING PER LINEAL FOOT		
	LIGHT	MEDIUM	HEAVY	4" WALL	5" WALL	6" WALL	7" WALL	8" WALL		LIGHT	MEDIUM	HEAVY
¼	\$ 1.00	\$ 1.20	\$ 2.10	\$ 3.00	\$ 4.00	\$ 6.00	\$ 9.00	\$ 9.50	¾	\$ 1.00	\$ 1.20	\$ 2.30
⅜	1.00	1.20	2.10	3.00	4.00	6.00	9.00	9.50	½	1.00	1.20	2.30
½	1.00	1.20	2.10	3.00	4.00	6.00	9.00	9.50	⅝	1.00	1.20	2.30
¾	1.10	1.30	2.30	3.00	4.00	6.00	9.00	9.50	7/8	1.10	1.30	2.60
1	1.20	1.50	2.80	3.20	4.40	6.20	9.20	10.00	1 ⅛	1.20	1.50	2.80
1 ¼	1.30	2.00	3.20	3.50	4.60	6.50	9.60	10.60	1 ⅜	1.30	2.00	3.20
1 ½	1.40	2.30	3.40	3.70	4.90	6.80	10.00	11.20	1 ½	1.40	2.30	3.60
2	1.60	2.40	3.80	4.20	5.60	7.60	10.80	12.20	2 ⅛	1.60	2.40	4.40
2 ½	1.70	3.00	4.00	4.90	6.20	8.20	11.60	13.50	2 ½	1.70	3.00	5.20
3	2.20	3.50	4.50	5.30	6.80	9.00	12.30	14.60	3 ⅛	2.50	3.70	6.00
3 ½	2.60	3.80	5.30	5.80	7.40	9.60	13.20	15.60	3 ½	3.00	4.20	6.70
4	3.00	4.00	5.60	6.50	8.00	10.20	14.00	16.80	4 ⅛	3.50	4.60	7.50
5	3.50	5.20	7.20	7.70	9.20	11.60	15.60	19.00	5 ⅛	4.00	5.50	9.00
6	4.20	6.00	8.40	8.40	10.50	13.00	17.20	21.30	6 ⅛	5.00	6.30	10.60
8	5.50	7.50	11.20	11.20	13.00	15.80	20.40	26.00				
10	7.60	11.00	14.00	14.00	15.40	18.50	23.70	30.00				
12	8.60	12.00	16.00	16.00	18.00	21.20	26.80	35.00				
14	9.20	14.00	17.30	17.30	20.40	24.00	30.00	39.00				
16	11.30	15.40	19.60	19.60	23.00	26.70	33.00	44.00				
18	12.60	17.20	21.80	21.80	25.40	29.40	37.00	48.00				
20	14.00	19.00	24.00	24.00	28.00	32.00	40.00	53.00				
22	15.40	20.90	26.30									
24	16.80	22.80	28.60									
26	18.20	24.60	30.90									
28	19.60	26.50	33.20									
30	21.00	28.40	35.50									
32	22.40	30.20	37.80									
34	23.80	32.20	40.10									
36	25.20	34.20	42.40									

ABOVE LIST PRICES SUBJECT TO DISCOUNT

"JOINTITE" FITTING COVERS - LIGHT DUTY - LIST PRICES

SCREWED

IRON PIPE SIZE INCHES	STANDARD (125 lb.)						EXTRA HEAVY & AMMONIA								
	ELL			TEE	UNION	GLOBE VALVE	ANGLE VALVE	GATE VALVE	ELL			TEE	GLOBE VALVE	ANGLE VALVE	GATE VALVE
	90°	45°							90°	45°					
¼	\$ 2.80	\$ 2.80		\$ 2.80	\$ 2.80	\$ 3.40	\$ 3.40	\$ 3.40	\$ 3.00	\$ 3.00		\$ 3.00	\$ 4.00	\$ 4.00	\$ 4.00
⅜	2.80	2.80		2.80	2.80	3.40	3.40	3.40	3.00	3.00		3.00	4.00	4.00	4.00
½	2.80	2.80		2.80	2.80	3.40	3.40	3.40	3.00	3.00		3.00	4.00	4.00	4.00
¾	3.40	3.40		3.40	3.40	4.00	4.00	4.00	3.60	3.60		3.60	5.00	5.00	5.00
1	3.60	3.60		3.60	3.60	5.00	5.00	5.00	4.00	4.00		4.00	6.80	6.80	6.80
1¼	4.00	4.00		4.00	4.00	6.80	6.80	6.80	4.40	4.40		4.40	8.80	8.80	8.80
1½	4.40	4.40		4.40	4.40	8.80	8.80	8.80	5.60	5.60		5.60	11.80	11.80	11.80
2	5.60	5.60		5.60	5.60	11.80	11.80	11.80	6.60	6.60		6.60	15.00	15.00	15.00
2½	6.60	6.60		6.60	6.60	15.00	15.00	15.00	7.80	7.80		7.80	18.20	18.20	18.20
3	7.80	7.80		7.80	7.80	18.20	18.20	18.20	8.80	8.80		8.80	21.60	21.60	21.60
3½	8.80	8.80		8.80	8.80	21.60	21.60	21.60	10.00	10.00		10.00	24.80	24.80	24.80
4	10.00	10.00		10.00	10.00	24.80	24.80	24.80	12.20	12.20		12.20	31.40	31.40	31.40
5	12.20	12.20		12.20	12.20	31.40	31.40	31.40	14.80	14.80		14.80	38.00	38.00	38.00
6	14.80	14.80		14.80	14.80	38.00	38.00	38.00	19.80	19.80		19.80	51.20	51.20	51.20
8	29.80	29.80		29.80	29.80	51.20	51.20	51.20	36.40	36.40		36.40	63.80	63.80	63.80

FLANGED

COPPER TUBING & WELDED

IRON PIPE SIZE INCHES	STANDARD (125 lb.)						EXTRA HEAVY & AMMONIA						COPPER TUBING					
	ELL		TEE	FLANGE	GLOBE VALVE	ANGLE VALVE	GATE VALVE	ELL		TEE	FLANGE	GLOBE VALVE	ANGLE VALVE	GATE VALVE	WELD & SWEAT		WELD TEE	SWEAT TEE
	90°	45°						90°	45°						90°	45°		
¼	\$ 8.80	\$ 8.80	\$ 8.80	\$ 3.60	\$ 8.80	\$ 8.80	\$ 8.80	\$ 8.80	\$ 8.80	\$ 8.80	\$ 3.60	\$ 8.80	\$ 8.80	\$ 8.80	\$ 3.00	\$ 3.00	\$ 3.00	\$ 3.00
⅜	8.80	8.80	8.80	3.60	8.80	8.80	8.80	8.80	8.80	8.80	3.60	8.80	8.80	8.80	3.00	3.00	3.00	3.00
½	8.80	8.80	8.80	3.60	8.80	8.80	8.80	8.80	8.80	8.80	3.60	8.80	8.80	8.80	3.00	3.00	3.00	3.00
¾	10.00	10.00	10.00	4.00	10.00	10.00	10.00	10.00	10.00	10.00	4.00	10.00	10.00	10.00	3.40	3.40	3.40	3.40
1	11.00	11.00	11.00	4.40	11.00	11.00	11.00	11.00	11.00	11.00	4.40	11.00	11.00	11.00	3.60	3.60	3.60	3.60
1¼	12.20	12.20	12.20	4.80	12.20	12.20	12.20	12.20	12.20	12.20	4.80	12.20	12.20	12.20	4.40	4.40	4.40	4.40
1½	13.80	13.80	13.80	5.20	13.80	13.80	13.80	13.80	13.80	13.80	5.20	13.80	13.80	13.80	4.80	4.80	4.80	4.80
2	16.60	16.60	16.60	6.00	16.60	16.60	16.60	16.60	16.60	16.60	6.00	16.60	16.60	16.60	6.60	6.60	6.60	6.60
2½	18.80	18.80	18.80	6.80	18.80	18.80	18.80	18.80	18.80	18.80	6.80	18.80	18.80	18.80	7.80	7.80	7.80	7.80
3	21.40	21.40	21.40	7.80	21.40	21.40	21.40	21.40	21.40	21.40	7.80	21.40	21.40	21.40	9.20	9.20	9.20	9.20
3½	24.20	24.20	24.20	8.60	24.20	24.20	24.20	24.20	24.20	24.20	8.60	24.20	24.20	24.20	10.60	10.60	10.60	10.60
4	26.80	26.80	26.80	9.20	26.80	26.80	26.80	26.80	26.80	26.80	9.20	26.80	26.80	26.80	12.20	12.20	12.20	12.20
5	32.00	32.00	32.00	11.00	32.00	32.00	32.00	32.00	32.00	32.00	11.00	32.00	32.00	32.00	14.80	14.80	14.80	14.80
6	37.40	37.40	37.40	12.60	37.40	37.40	37.40	37.40	37.40	37.40	12.60	37.40	37.40	37.40	17.60	17.60	17.60	17.60
8	72.60	72.60	72.60	26.80	72.60	72.60	72.60	72.60	72.60	72.60	26.80	72.60	72.60	72.60	35.20	35.20	35.20	35.20

ABOVE LIST PRICES SUBJECT TO DISCOUNT

"JOINTITE" FITTING COVERS - MEDIUM DUTY - LIST PRICES

SCREWED

IRON PIPE SIZE INCHES	STANDARD (125 lb.)							EXTRA HEAVY & AMMONIA						
	ELL		TEE	UNION	GLOBE VALVE	ANGLE VALVE	GATE VALVE	ELL		TEE	GLOBE VALVE	ANGLE VALVE	GATE VALVE	
	90°	45°						90°	45°					
1/4	\$ 3.40	\$ 3.40	\$ 3.40	\$ 3.40	\$ 4.40	\$ 4.40	\$ 4.40	\$ 3.60	\$ 3.60	\$ 3.60	\$ 4.80	\$ 4.80	\$ 4.80	
3/8	3.40	3.40	3.40	3.40	4.40	4.40	4.40	3.60	3.60	3.60	4.80	4.80	4.80	
1/2	3.40	3.40	3.40	3.40	4.40	4.40	4.40	3.60	3.60	3.60	4.80	4.80	4.80	
3/4	3.80	3.80	3.80	3.80	4.80	4.80	4.80	4.40	4.40	4.40	6.60	6.60	6.60	
1	4.20	4.20	4.20	4.20	6.60	6.60	6.60	5.20	5.20	5.20	9.20	9.20	9.20	
1 1/4	5.60	5.60	5.60	5.60	9.20	9.20	9.20	6.40	6.40	6.40	12.20	12.20	12.20	
1 1/2	6.60	6.60	6.60	6.60	12.20	12.20	12.20	8.80	8.80	8.80	17.60	17.60	17.60	
2	8.20	8.20	8.20	8.20	17.60	17.60	17.60	10.80	10.80	10.80	22.60	22.60	22.60	
2 1/2	10.40	10.40	10.40	10.40	22.60	22.60	22.60	12.80	12.80	12.80	26.40	26.40	26.40	
3	13.80	13.80	13.80	13.80	26.40	26.40	26.40	15.40	15.40	15.40	33.00	33.00	33.00	
3 1/2	16.60	16.60	16.60	16.60	33.00	33.00	33.00	18.40	18.40	18.40	38.60	38.60	38.60	
4	19.00	19.00	19.00	19.00	38.60	38.60	38.60	22.00	22.00	22.00	49.60	49.60	49.60	
5	23.20	23.20	23.20	23.20	49.60	49.60	49.60	26.40	26.40	26.40	60.00	60.00	60.00	
6	30.80	30.80	30.80	30.80	60.00	60.00	60.00	35.20	35.20	35.20	81.40	81.40	81.40	
8	52.80	52.80	52.80	52.80	81.40	81.40	81.40	66.00	66.00	66.00	103.40	103.40	103.40	

FLANGED

IRON PIPE SIZE INCHES	STANDARD (125 lb.)										EXTRA HEAVY & AMMONIA										COPPER TUBING PIPE SIZE INCHES	& WELDED		
	ELL			TEE	FLANGE	GLOBE VALVE	ANGLE VALVE	GATE VALVE	ELL		TEE	FLANGE	GLOBE VALVE	ANGLE VALVE	GATE VALVE	WELD & SWEAT ELL								
	90°	45°							90°	45°						90°	45°	90°	45°					
¼	\$13.20	\$13.20		\$13.20	\$ 5.00	\$13.20	\$13.20	\$13.20	\$13.20	\$13.20	\$13.20	\$ 5.00	\$13.20	\$13.20	\$13.20	\$13.20	\$13.20	\$3.80	\$ 3.80	\$ 3.80	\$ 3.80			
⅜	13.20	13.20		13.20	5.00	13.20	13.20	13.20	13.20	13.20	13.20	5.00	13.20	13.20	13.20	13.20	13.20	3.80	3.80	3.80	3.80			
½	13.20	13.20		13.20	5.00	13.20	13.20	13.20	13.20	13.20	13.20	5.00	13.20	13.20	13.20	13.20	13.20	3.80	3.80	3.80	3.80			
¾	15.40	15.40		15.40	6.00	15.40	15.40	15.40	15.40	15.40	15.40	6.00	15.40	15.40	15.40	15.40	15.40	4.40	4.40	4.40	4.40			
1	18.40	18.40		18.40	6.80	18.40	18.40	18.40	18.40	18.40	18.40	6.80	18.40	18.40	18.40	18.40	18.40	5.00	5.00	5.00	5.00			
1 ¼	21.00	21.00		21.00	7.80	21.00	21.00	21.00	21.00	21.00	21.00	7.80	21.00	21.00	21.00	21.00	21.00	6.60	6.60	6.60	6.60			
1 ½	24.20	24.20		24.20	8.60	24.20	24.20	24.20	24.20	24.20	24.20	8.60	24.20	24.20	24.20	24.20	24.20	8.00	8.00	8.00	8.00			
2	29.80	29.80		29.80	10.40	29.80	29.80	29.80	29.80	29.80	29.80	10.40	29.80	29.80	29.80	29.80	29.80	10.00	10.00	10.00	10.00			
2 ½	35.20	35.20		35.20	12.20	35.20	35.20	35.20	35.20	35.20	35.20	12.20	35.20	35.20	35.20	35.20	35.20	12.20	12.20	12.20	12.20			
3	40.80	40.80		40.80	13.80	40.80	40.80	40.80	40.80	40.80	40.80	13.80	40.80	40.80	40.80	40.80	40.80	15.40	15.40	15.40	15.40			
3 ½	46.20	46.20		46.20	15.60	46.20	46.20	46.20	46.20	46.20	46.20	15.60	46.20	46.20	46.20	46.20	46.20	18.80	18.80	18.80	18.80			
4	51.80	51.80		51.80	17.40	51.80	51.80	51.80	51.80	51.80	51.80	17.40	51.80	51.80	51.80	51.80	51.80	21.00	21.00	21.00	21.00			
5	62.80	62.80		62.80	21.20	62.80	62.80	62.80	62.80	62.80	62.80	21.20	62.80	62.80	62.80	62.80	62.80	25.40	25.40	25.40	25.40			
6	73.80	73.80		73.80	24.60	73.80	73.80	73.80	73.80	73.80	73.80	24.60	73.80	73.80	73.80	73.80	73.80	32.00	32.00	32.00	32.00			
8	143.60	143.60		143.60	54.00	143.60	143.60	143.60	143.60	143.60	143.60	54.00	143.60	143.60	143.60	143.60	143.60	61.60	61.60	61.60	61.60			

COPPER TUBING & WELDED

ABOVE LIST PRICES SUBJECT TO DISCOUNT

"JOINTITLE FITTING COVERS HEAVY DUTY - LIST PRICES SCREWED

IRON PIPE SIZE INCHES	STANDARD (125 lb.)						EXTRA HEAVY & AMMONIA					
	ELL			TEE	UNION	GLOBE VALVE	ANGLE VALVE	GATE VALVE	ELL			GATE VALVE
	90°	45°							90°	45°		
1/4	\$ 6.00	6.00		\$ 6.00	\$ 6.00	\$ 7.80	\$ 7.80	\$ 7.80	\$ 7.00	\$ 7.00		\$ 8.80
3/8	6.00	6.00		6.00	6.00	7.80	7.80	7.80	7.00	7.00		8.80
1/2	6.00	6.00		6.00	6.00	7.80	7.80	7.80	7.00	7.00		8.80
3/4	7.00	7.00		7.00	7.00	8.80	8.80	8.80	8.00	8.00		10.40
1	8.00	8.00		8.00	8.00	10.40	10.40	10.40	9.20	9.20		13.20
1 1/4	9.20	9.20		9.20	9.20	13.20	13.20	13.20	10.60	10.60		15.80
1 1/2	10.60	10.60		10.60	10.60	15.80	15.80	15.80	13.40	13.40		21.40
2	13.40	13.40		13.40	13.40	21.40	21.40	21.40	15.80	15.80		26.80
2 1/2	15.80	15.80		15.80	15.80	26.80	26.80	26.80	18.20	18.20		32.40
3	18.20	18.20		18.20	18.20	32.40	32.40	32.40	21.00	21.00		37.80
3 1/2	21.00	21.00		21.00	21.00	37.80	37.80	37.80	23.80	23.80		43.40
4	23.80	23.80		23.80	23.80	43.40	43.40	43.40	28.60	28.60		54.40
5	28.60	28.60		28.60	28.60	54.40	54.40	54.40	34.20	34.20		66.00
6	34.20	34.20		34.20	34.20	66.00	66.00	66.00	45.20	45.20		88.00
8	68.20	68.20		68.20	68.20	88.00	88.00	88.00	82.60	82.60		110.00

FLANGED

COPPER TUBING & WELDED

IRON PIPE SIZE INCHES	STANDARD (125 lb.)						EXTRA HEAVY & AMMONIA					
	ELL			TEE	GLOBE VALVE	ANGLE VALVE	GATE VALVE	ELL			GATE VALVE	COPPER TUBING PIPE SIZE INCHES
	90°	45°						90°	45°			
1/4	\$18.80	\$18.80		\$18.80	\$18.80	\$18.80	\$18.80	\$18.80	\$18.80		\$18.80	3/8
3/8	18.80	18.80		18.80	18.80	18.80	18.80	18.80	18.80		18.80	1/2
1/2	18.80	18.80		18.80	18.80	18.80	18.80	18.80	18.80		18.80	5/8
3/4	20.20	20.20		20.20	20.20	20.20	20.20	20.20	20.20		20.20	7/8
1	23.20	23.20		23.20	23.20	23.20	23.20	23.20	23.20		23.20	1 1/8
1 1/4	25.80	25.80		25.80	25.80	25.80	25.80	25.80	25.80		25.80	1 3/8
1 1/2	28.60	28.60		28.60	28.60	28.60	28.60	28.60	28.60		28.60	1 7/8
2	34.20	34.20		34.20	34.20	34.20	34.20	34.20	34.20		34.20	2 1/8
2 1/2	39.60	39.60		39.60	39.60	39.60	39.60	39.60	39.60		39.60	2 3/8
3	45.20	45.20		45.20	45.20	45.20	45.20	45.20	45.20		45.20	3 1/8
3 1/2	50.60	50.60		50.60	50.60	50.60	50.60	50.60	50.60		50.60	3 3/8
4	56.20	56.20		56.20	56.20	56.20	56.20	56.20	56.20		56.20	4 1/8
5	67.20	67.20		67.20	67.20	67.20	67.20	67.20	67.20		67.20	5 1/8
6	78.20	78.20		78.20	78.20	78.20	78.20	78.20	78.20		78.20	6 1/8
8	151.80	151.80		151.80	151.80	151.80	151.80	151.80	151.80		151.80	8 1/8

ABOVE LIST PRICES SUBJECT TO DISCOUNT

SPECIAL FITTING COVERS

Within the scope of this schedule of list prices, a **special fitting** is defined as a fitting having the same general form as a **standard fitting** but differing in dimension and pattern. The more commonly specified **special fittings** within this category fall under one of the general classifications on this page.

Covers for the special fittings listed at right, all of which are non-stock, take the list price of standard fittings as indicated.

CLASSIFICATION	LIST PRICE
Socket Weld Ells, Tee, 45° Ells	Weld & Sweat Fittings
Reducers, Couplings	Std. or XH Fitting (Screwed)
Street Ells, Laterals, True Y's, Drainage Ells, Tees, Y's, Side Outlet Ells	Std. or XH Fitting (Screwed or Flanged)
Check Valves	Std. or XH Valve (Screwed or Flanged)
Henry Valves	Std. Valve (Screwed or Flanged)

Covers for the special fittings listed at right, all of which are non-stock, take the list price of fittings as indicated x 1¼.

CLASSIFICATION	LIST PRICE
Crosses Side Outlet Tees Plug Cocks	Std. or XH Valve (Screwed or Flanged)

Covers for the special fittings listed at right, all of which are non-stock, take the list price of fittings as indicated x 1½.

CLASSIFICATION	LIST PRICE
Screwed & Flanged Ells	XHY ell (screwed)
Relief or Safety Valves Regulating Valves Butterfly Valves Packless Valves Clamp or Saddle Gate Valves Cross or Tee Valves Expansion Valves By-Pass Valves Strainers — Scale Traps Concentric & Eccentric Reducers All other valves & special fittings	Std. or XH Valve (Screwed or Flanged)

SPECIAL WALL THICKNESS FITTINGS

To determine the list price of any fitting in any of the indicated special wall thicknesses as shown in page 1, use table below:

FOR ALL SCREWED AND WELD FITTINGS

Iron Pipe Sizes up to 8": Multiply the list price per ft. of covering x 7.
Iron Pipe Sizes 8" and over: Multiply list price per ft. of covering x 10.

FOR ALL FLANGED FITTINGS

Iron Pipe Sizes up to 8": Multiply list price per ft. of covering x 11.
Iron Pipe Sizes 8" and over: Multiply list price per ft. of covering x 16.

FOR ALL FLANGES

All Iron Pipe Sizes: Multiply list price per ft. of covering x 7.

All list prices referred to above are subject to discount

HOW TO ORDER CORK PIPE COVERING & FITTINGS

Orders for Mundet "Jointite" Cork Covering should be specific as to the following points:

- Thickness of covering; whether Light Duty, Medium Duty, Heavy Duty or Special Wall Thickness.
- Unless otherwise specified, pipe sizes are assumed to be nominal; i.e. inside diameter of pipe. For copper tubing, steel, etc. the actual outside diameter should be given.
- Specify if fittings are screwed, flanged, welded or sweat. Also, if Standard 125# or Extra Heavy 250#. Unless otherwise stated, they are assumed to be screwed and 125#. Unless the manufacturer's name and catalog number are given, 150# fittings are considered the same as Standard 125# and 300# fittings the same as Extra Heavy 250#; except 300# valves which are considered Special Fittings.
- Specify if fitting is 90° ell, 45° ell, tee, union, etc. If not specified, all ell's are assumed 1 R for screwed and flanged in iron pipe size, and 1½ R for welded and sweat.
- Specify type of valve: globe, gate, angle and whether screwed or bolted bonnet. Unless otherwise specified, Standard 125# valves under 2" and Ammonia valves under 1" are assumed to be screwed bonnet. Standard valves over 2" and Ammonia valves over 1" are assumed to be bolted bonnet.

For Special Fittings the manufacturer's name and catalog number or a dimensional print showing the exterior details must be furnished.

DIMENSION TABLE FOR MUNDET CORK COVERING

Dimensions of Mundet Cork Covering for nominal pipe and tubing sizes are shown below.

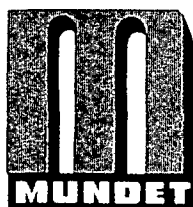
Dimensions for pipe sizes above the heavy lines are for asphalt coated material. For uncoated DEDUCT 1/8" from the outside diameter and 1/16" from the wall thickness. Dimensions for pipe sizes below the heavy lines are for uncoated material. For asphalt coated ADD 1/8" to the outside diameter and 1/16" to the wall thickness.

Nominal Pipe Size Inches	O.D. Pipe Inches	LIGHT DUTY		MEDIUM		HEAVY DUTY		Nominal 4" Wall Thickness		Nominal 5" Wall Thickness		Nominal 6" Wall Thickness	
		Wall Thick-ness Inches	O.D. Covering Inches	Wall Thick-ness Inches	O.D. Covering Inches	Wall Thick-ness Inches	O.D. Covering Inches	Approx. Wall Thick-ness Inches	Approx. O.D. Covering Inches	Approx. Wall Thick-ness Inches	Approx. O.D. Covering Inches	Approx. Wall Thick-ness Inches	Approx. O.D. Covering Inches
1/4	.540	1.35	3.25	1.85	4.25	2.88	6.31	4.16	8.87	5.29	11.12	5.82	12.18
3/8	.675	1.28	3.25	1.78	4.25	2.82	6.31	4.10	8.87	5.22	11.12	6.22	13.12
1/2	.840	1.20	3.25	1.70	4.25	2.73	6.31	4.01	8.87	5.14	11.12	6.14	13.12
3/4	1.050	1.35	3.75	1.85	4.75	2.63	6.31	3.91	8.87	5.03	11.12	6.03	13.12
1	1.315	1.47	4.25	2.00	5.31	2.97	7.25	4.16	9.62	4.90	11.12	5.90	13.12
1 1/4	1.660	1.54	4.75	2.32	6.31	3.10	7.87	3.98	9.62	5.26	12.18	6.48	14.62
1 1/2	1.900	1.42	4.75	2.50	6.90	2.99	7.87	3.86	9.62	5.14	12.18	6.36	14.62
2	2.375	1.47	5.31	2.44	7.25	3.25	8.87	3.94	10.25	4.90	12.18	6.12	14.62
2 1/2	2.875	1.72	6.31	2.50	7.87	3.00	8.87	4.12	11.12	5.12	13.12	5.87	14.62
3	3.500	1.70	6.90	2.68	8.87	3.06	9.62	4.34	12.18	4.81	13.12	6.00	15.50
3 1/2	4.000	1.62	7.25	2.81	9.62	3.56	11.12	4.09	12.18	5.31	14.62	6.00	16.00
4	4.500	1.68	7.87	2.56	9.62	3.31	11.12	4.31	13.12	5.06	14.62	6.00	16.50
5	5.563	1.65	8.87	2.78	11.12	3.97	13.50	4.53	14.62	5.00	15.56	6.00	17.56
6	6.625	1.81	10.25	2.88	12.38	4.12	14.87	4.00	14.62	5.00	16.62	6.00	18.62
8	8.625	1.88	12.38	3.12	14.87	4.00	16.62	4.00	16.62	5.00	18.62	6.00	20.62
10	10.750	2.06	14.87	3.00	16.75	4.00	18.75	4.00	18.75	5.00	20.75	6.00	22.75
12	12.750	1.50	15.75	3.00	18.75	4.00	20.75	4.00	20.75	5.00	22.75	6.00	24.75
14	14.000	1.50	17.00	3.00	20.00	4.00	22.00	NOTE:—Wall thicknesses for 7" and 8" wall thickness Covering will be actual for all pipe sizes.					
16	16.000	1.50	19.00	3.00	22.00	4.00	24.00						
18	18.000	1.50	21.00	3.00	24.00	4.00	26.00						
20	20.000	1.50	23.00	3.00	26.00	4.00	28.00						

TUBING COVERING

All dimensions for tubing covering are for asphalt coated material. For uncoated DEDUCT 1/8" from the outside diameter and 1/16" from the wall thickness.

Tubing O.D. Inches	LIGHT DUTY		MEDIUM		HEAVY DUTY		Tubing O.D. Inches	LIGHT DUTY		MEDIUM		HEAVY DUTY	
	Thick-ness Inches	O.D. Covering Inches	Thick-ness Inches	O.D. Covering Inches	Thick-ness Inches	O.D. Covering Inches		Thick-ness Inches	O.D. Covering Inches	Thick-ness Inches	O.D. Covering Inches	Thick-ness Inches	O.D. Covering Inches
3/8	1.43	3.25	1.93	4.25	2.96	6.31	2 1/8	1.59	5.31	2.56	7.25	3.37	8.87
1/2	1.37	3.25	1.87	4.25	2.90	6.31	2 3/8	1.84	6.31	2.62	7.87	3.12	8.87
5/8	1.31	3.25	1.81	4.25	2.84	6.31	3 1/8	1.88	6.90	2.87	8.87	3.24	9.62
7/8	1.43	3.75	1.93	4.75	2.71	6.31	3 5/8	1.81	7.25	2.99	9.62	3.74	11.12
1 1/8	1.56	4.25	2.09	5.31	3.06	7.25	4 1/8	1.87	7.87	2.74	9.62	3.49	11.12
1 3/8	1.68	4.75	2.46	6.31	3.24	7.87	5 1/8	1.87	8.87	3.00	11.12	4.13	13.50
1 5/8	1.56	4.75	2.63	6.90	3.12	7.87	6 1/8	2.06	10.25	3.12	12.38	4.37	14.87



Jointite CORK PIPE COVERING

LOW TEMPERATURE INSULATION

Uses—For insulation of cold-water, brine, ammonia, and other refrigerant lines and cylindrical tanks, coolers, etc.

Manufacture—Same as Mundet Cork-board, thus offering the same high resistance to heat infiltration. Moulded to fit all standard size pipes and fittings and asphalt coated on inside and outside surfaces as protection against moisture. Mundet Cork Lagging for cylindrical vessels is beveled for accurate fitting of longitudinal joints and similarly treated to prevent moisture infiltration.

Clearances and Suggested Thicknesses — Pipe, Fittings and Lagging

Temp. Range °F.	Fittings	Min. Clearance Req.		Cork Thickness Inches	Mundet Cork Lag.	
		Between Pipes	bet. Pipes and Wall Surfaces		Temp. °F.	Inches
Above 35	Screwed under 6"	6"	4"	Class A Light Duty 1.2-1.9"	Above 50	2
	Screwed over 6"	10"	5"			
	Flanged, any size	10"	5"			
0 to 35	Screwed under 6"	8"	6"	Class B Standard 1.7-3.0	35 to 50	3
	Screwed over 6"	14"	8"			
	Flanged, any size	14"	8"			
-25 to 0	Screwed under 6"	10"	8"	Class C Heavy Duty 2.6-4.0	5 to 20	5
	Screwed over 6"	18"	12"			
	Flanged, any size	18"	12"			

*Thickness required varies according to size of pipe. Standard lengths, 3'.

Pipe Covering

Mundet "Jointite" Cork Pipe Covering and Fitting Covers are manufactured in three standard thicknesses to meet varying conditions of usage. The wall thickness for each type varies according to the pipe or tubing size. The economic thickness required for any given installation is that thickness that will reduce to the minimum the sum of expense due to the heat passed through it plus the expense of preventing the heat losses.

For temperatures below —25°F, we design a Special Wall Thick Covering (Class D) for each specific job.

Specifications

Government

Mundet "Jointite" 100% Pure Cork Pipe Covering and Fitting Covers, meet all requirements of United States Government Specifications. The classes noted in Section B of these specifications will now be as follows:

- Class A — Light Duty Covering
- Class B — Medium Duty Covering
- Class C — Heavy Duty Covering

All details as to wall thicknesses noted under Section E of the Government specifications, will be in accordance with the requirements of those specifications.

Specification I

NOTE: The following specification is used more than any other, covering probably 75% of all pipe covering installations.

Pipe. After the pipe lines have been tested and approved, they shall be cleaned of any plaster, rust or moisture, after which they shall be insulated with "Jointite" (A), (B) or (C) Cork Pipe Covering. All contact joints shall be sealed with Mundet Waterproof Cement. All contact joints shall be butted closely and firmly together and secured with copper clad steel wire, spaced at intervals of not more than 6 in. All seams shall be horizontal. All mated sections shall be used together. The so-called "broken joint" method must not be used.

Fittings. The fittings shall be insulated with "Jointite" Cork Fitting Covers of a thickness to match the above pipe covering. All contact joints shall be sealed with Mundet Waterproof Cement. All joints shall be butted closely and firmly together and secured with not less than four copper clad steel wires. On all flanged fittings and on all screwed fittings larger than 6 in., not less than six wires shall be used.

Voids. All spaces between fittings and fitting covers shall be filled with either Mundet Space Filler or Fine Regranulated Cork.

Seams. All seams and chipped edges in the fitting covers and pipe covering shall be filled with Mundet Seam Filler and the surface made smooth.

Finish. The entire outer surface of the insulation shall receive one coat of Mundet Finish Paint.

Hangers. Pipe Lines shall be supported, in every case, outside of the covering and shall be protected by carefully fitted metal shields extending 4 in. on each side of the hanger. The shield shall embrace the entire lower semi-circle.

Spacing. Minimum spacing between pipes and adjacent surfaces shall be as shown in spacing table.

SPACING TABLE

Thickness	Description	Clear space between pipes, in.	Clear space between pipes and walls, etc., in.
LIGHT DUTY (A)	Screwed fittings up to 6 in.	6	4
	Screwed fittings over 6 in. and flanged fittings.	10	5
MEDIUM DUTY (B)	Screwed fittings up to 6 in.	8	6
	Screwed fittings over 6 in. and flanged fittings.	14	8
HEAVY DUTY (C)	Screwed fittings up to 6 in.	10	8
	Screwed fittings over 6 in. and flanged fittings.	18	12

Specification II

NOTE: For use in hotel kitchens, damp cellars, creameries, packing houses, etc., and wherever the atmosphere is saturated with moisture or steam. Essential for outdoor pipe lines where the cork covering is exposed to the weather.

Pipe, Fittings, Voids, Seams, Finish, Hangers, Spacing. Specifications under these headings same as Specification I.

Roofing Jacket. After the seams have been filled, there shall be applied . . . layers of . . . ply smooth surfaced roofing. Each joint shall be lapped not less than 2 in. The laps shall be sealed with asphalt paint and secured with staples or copper clad steel wire. All laps shall be laid in such a manner as to form a watershed.

Specification III

NOTE: A canvas and paint finish for neatness and to harmonize with surrounding decorations or equipment.

Pipe, Fittings, Voids, Seams, Hangers, Spacing. Specifications under these headings same as Specification I.

Canvas. After the seams have been filled, the pipe covering shall be wrapped with No. 8 Rosin Sized Paper, and the fittings shall be given a coat of asbestos cement, troweled on, and of sufficient thickness to give a smooth base for canvas. Over the pipe and fittings, a jacket of 8-oz. canvas shall be neatly sewn, using not less than three stitches to the inch. All seams shall be located along the line of minimum visibility.

Finish. The canvas jacket shall be sized and painted with two coats of lead and oil paint.

Specification IV

NOTE: Unsurpassed for low temperature piping, and offering an ideal surface protection to the mineral rubber finish on cork pipe covering.

Pipe, Fittings, Voids, Seams, Hangers, Spacing. Specifications under these headings same as Specification I.

Membrane Jacket. Over the fittings there shall be applied a layer of mineral rubber cloth, lapped not less than 2 in. and sealed with asphalt paint. Starting with a 2-in. lap upon the fittings, the straight pipe shall be wrapped spirally with a layer of rubberized adhesive membrane tape lapped not less than 1 in.

Finish. Finish to be either as in Specification I or Specification III.

COMPARATIVE HEAT LOSSES

Transmission in B.T.U.'s per hour, per deg. F. diff. per lineal foot

How to use table

To determine the loss on 400 feet of 3-inch bare pipe, based on a temperature difference between the pipe and the outside air of 90 deg. per day, multiply number of feet by coefficient by temperature difference by 24 hours.

$$400 \times 1.948 \times 90 \times 24 = 1,683,072 \text{ B.T.U.'s.}$$

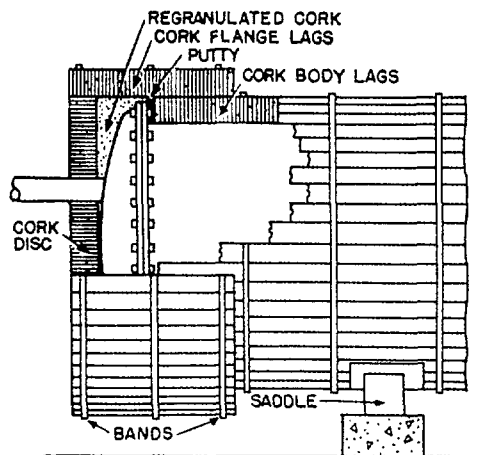
Dividing this by 288,000 (B.T.U.'s per ton) gives 5.844 the tons of refrigeration lost per day.

To determine the corresponding loss for insulated pipe substitute the coefficient for bare pipe with that of the contemplated insulation.

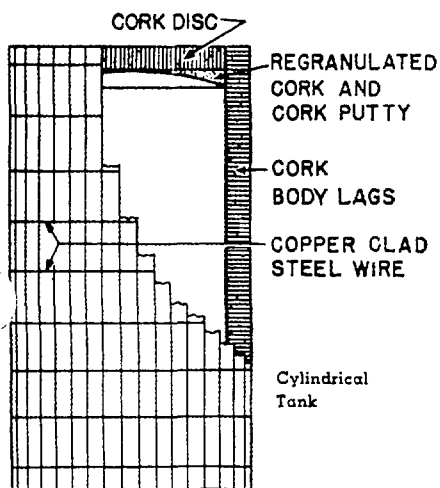
The saving effected by the use of cork insulation is the difference between tons of refrigeration lost for bare pipe and that lost through cork insulated pipe.

Nominal pipe size (in.)	Bare pipe	Cork insulation		
		Light Duty	Medium Duty	Heavy Duty
1/4	.452	.0802	.0713	.0611
3/8	.494	.0906	.0976	.0670
1/2	.566	.104	.0895	.0742
3/4	.670	.111	.0973	.0829
1	.817	.121	.105	.0873
1 1/4	1.005	.135	.110	.0959
1 1/2	1.130	.155	.116	.104
2	1.383	.175	.131	.113
2 1/2	1.650	.207	.145	.132
3	1.948	.215	.157	.147
3 1/2	2.20	.236	.167	.156
4	2.44	.254	.192	.163
5	2.97	.300	.211	.173
6	3.50	.328	.238	.187
8	4.45	.400	.276	.227
10	5.48	.457	.329	.268
12	6.48	.658	.377	.303
14	7.09	.712	.415	.327
16	8.15	.819	.462	.363
18	9.11	.867	.509	.405
20	10.10	.972	.553	.438

LAGGING for BRINE COOLERS and CYLINDRICAL TANKS



Flanged Head Cooler



Cylindrical Tank

BRINE COOLERS: Specification No. 1

The cylindrical body shall be insulated with one layer of Mundet Cork Lagging. Lagging shall be beveled to the proper diameter and shall be coated inside and out with mineral rubber. The lags shall be applied with Mundet Waterproof Cement between all joints and additionally secured with galvanized iron bands approximately 1" wide, drawn up tight with clips and bolts. These bands shall be spaced 12" apart.

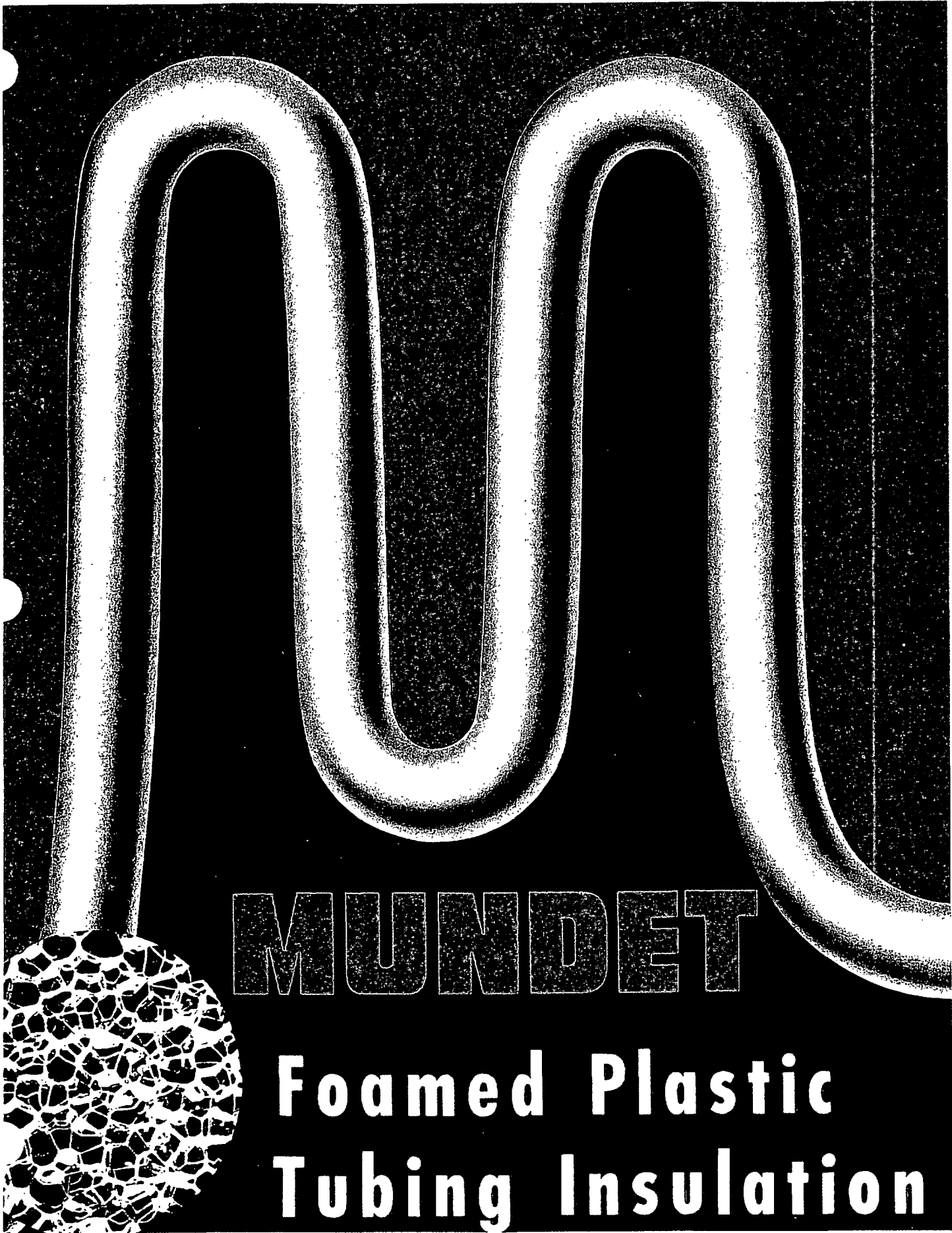
The flanged ends of the cooler shall be insulated with Mundet Cork Discs supported by a cork lagging collar applied over the flanges. This lagging shall extend to the outer surface of the disc and have a bearing on the body lagging at least 12". The collar lags and discs shall be applied in a similar manner as specified for body lags and be removable. All spaces between tank and lagging shall be filled with Mundet Brine Putty and spaces between discs and tank ends must be filled with regranulated cork.

Finish: After all insulation is applied, all chipped edges shall be filled and smoothed with Mundet Seam Filler and the entire surface then given one coat of Mundet Cork Covering Paint.

CYLINDRICAL TANKS — WELDED ENDS: Specification No. 2

The cylindrical body shall be insulated with one layer of Mundet Cork Lagging, beveled to the proper diameter and coated inside and out with mineral rubber. The lagging shall be secured to the tank with copper-clad steel wires spaced not more than 9" apart. The ends shall be insulated with Mundet Cork Discs supported in place by the body lagging, which shall extend beyond the tank to the outer surface of cork disc.

Finish: Seams shall be filled and all chipped and raw edges smoothed with Mundet Seam Filler and then the entire surface given one coat of Mundet Cork Covering Paint.



MUNDET

**Foamed Plastic
Tubing Insulation**

OTHER MUNDET PRODUCTS

Mundet makes a full line of Industrial Insulations for all temperature ranges from minus 200°F. to plus 1900°F. including: "Custom Molded" 85% Magnesia Pipe Covering and Blocks; Tri-Calite Calcium Silicate Insulation; Superfine Glass Fiber Blanket Insulation; Supertex Glass Fiber Duct Liner; Superglas Pipe Insulation; Spun Wool Blankets and Duct Insulations; Expanded Polystyrene Board and Pipe Covering; Corkboard and "Jointite" Cork Pipe Covering. Mundet Engineering Services cover all details from recommendations to final installation.

MUNDET ENGINEERED INSULATIONS

Mundet offers one of the largest ranges of insulation materials now available to Industry. This variety of thermal conservation products enables us to recommend the right insulation for your requirements . . . at savings to you both in longer service and in most efficient performance for the job-at-hand.

Whatever your requirements in the use of temperature . . . for power, processing, air conditioning or cold storage . . . the Mundet organization is ready to serve you promptly. Supplementing our own conveniently located branch offices, we have an integrated network of highly qualified distributor applicators in principal industrial areas.

Write for performance and specification data on any of our products. Recommendations will be made for individual applications.

MUNDET CORK CORPORATION

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