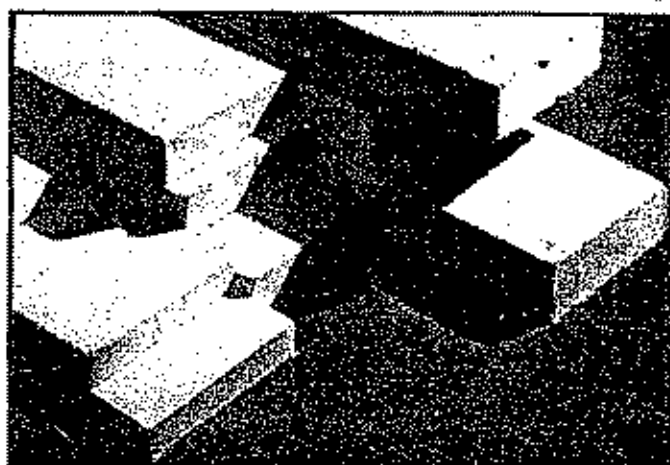




DESCRIPTION

This new high temperature calcium silicate block insulation extends the use of LK Equipment Insulation to include temperatures up to 1800°F. This new product adds increased temperature tolerance to the properties of moisture resistance, high strength and superior heat insulation performance of standard LK Block Insulation.

This product which is colored a slight pink and in this way can be distinguished from standard LK Insulation, brings the most desirable physical characteristics of heat insulation material to this high temperature range. It may be used as single layer insulation for flat surfaces up to 700°F and in double layers from 700° to 1800°F, or may be used as a first layer with standard LK or Armaglas Block where it shows little shrinkage, even after exposure to temperatures up to 1800°F.

LK-20 Block combines light weight with superior flexural strength, compressive strength and resistance to abrasion. The high temperature limit suits this product to all high temperature applications including refractory wall backing for furnaces and boilers and fireproofing of equipment and vessel skirts.

SIZES

WIDTH - 3, 6, 12 and 18 inches

LENGTH - 18 and 36 inches

THICKNESSES - 1, 1-1/2, 2, 2-1/2, 3, 3-1/2 and 4 inches

SPECIAL FORM - Curved block available on special order.

LIMITATIONS

LK-20 Block is designed for temperatures up to 1800°F. It should not be used when operating temperatures exceed this limit.

physical properties

density: approximately 12 lbs. per cu. ft.

flexural strength: (ASTM C-203) 90 lbs. per sq. in.

compressive strength: (ASTM C-163)
130 lbs. per sq. in. at 5% deformation

dimensional stability:

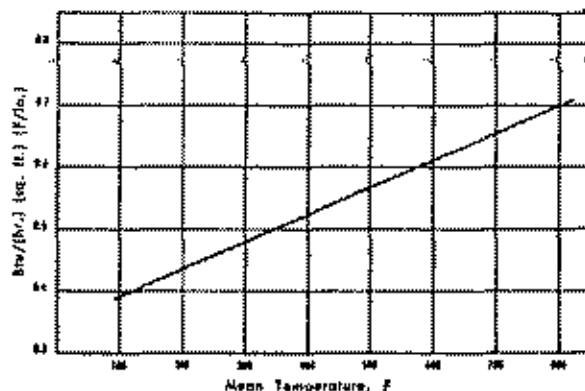
linear shrinkage after heating for 24 hours in muffle:
at 1200 F 0.7%
at 1800 F 1.6%

resistance to abrasion: (conventional tumbling test-loss in weight after 10 min.)
before heating 3%
after heating for 24 hours
at 1200 F 5%
at 1800 F 20%

alkalinity: pH 10

working temperature: up to 1800 F

thermal conductivity



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LK-20 products are presently available on a made-to-order basis only. Properties and characteristics have been determined from laboratory tests only. Data subject to change without notice and subject also to normal manufacturing and testing tolerances.

APPLICATION

FOR CURVED SURFACES OVER 39" O.D. - Hold in place with 1/2" galvanized steel bands on work up to 48" diameter and 3/4" bands on work over 48" diameter. Bands to be spaced on 12-18 inch centers. Point-up with insulating cement and then apply hexagonal wire mesh or metal lath, wiring to bands and laced edges. Note: The maximum temperature for the bands should be established by the metal band manufacturer due to the expansion of the equipment when heated.

FOR FLAT SURFACES - Hold in place with 16 gauge annealed wire or 1/8" wire cables attached to welded rods or studs. Point-up with insulating cement and then apply hexagonal wire mesh or metal lath over entire surface. Securely fasten down and lace the edges.

FOR IRREGULAR SURFACES - Apply a filler coat of insulating cement to cover the high points of all irregularities. Trowel to a level surface before applying blocks. Then follow recommended specifications, above, for flat surfaces.

FOR DOUBLE LAYERS - Apply the outer layer so that joints are staggered from inner layer.

FINISH

MINIMUM INDOOR FINISH - (base for further finishes.) Apply 1/2" coat of insulating cement.

GOOD INDOOR FINISH - does not require painting. To minimum finish, apply 6 or 8 oz. canvas between coats of white logging adhesive.

WEATHER RESISTANT FINISH FOR OUTDOOR WORK - Over minimum finish trowel two coats 1/8" thick of a suitable asphalt or oil base weather resistant mastic reinforced with glass fabric reinforcement between coats.

The foregoing is necessarily general in nature. Application procedure and material approval is at the discretion and responsibility of the design engineer to meet specific job requirements.

SPECIFICATION (Compliance)

HH-I-523a - Insulation Block, Pipe Covering and Cement, Thermal, Calcium Silicate

MIL-I-2819 - Insulation, Thermal Block, Class A and B

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