

B E H

BALDWIN-EHRET-HILL, INC., TRENTON, N.J.

DATA SHEET

Product: Baldwin-Ehret-Hill Spun Felt Insulation

Description: Flexible and semi-rigid felt insulation, in densities from 3 to 8 lb./cu. ft. Made from spun mineral wool fibers with phenolic resin binder and used at temperatures from sub-zero to 450°F mechanically supported, up to 600°F.

Uses: For heated surfaces of ovens, dryers, stoves, ducts; also refrigerated surfaces of freezers, cold storages, locker plants, air conditioning systems, ships, etc.

Features: Light Weight - Incombustibility - Easy fitting and cutting - Resiliency - Water Resistance - Non-corrosive

Technical Data: Maximum temperature...600°F if enclosed,
...450°F for general service

Sizes • Length 24, 30, 36, 48 inches
 • Width 12, 24 inches
 • Thickness 1 to 4" by 1/2" increments

Facings & Coatings • The following facings are available on all listed densities of Spun Felt Insulation -- 1", 1-1/2" and 2" thick.

VB	-	40 lb. Black Kraft Vapor Barrier Paper
RK	-	70 lb. Asphalt laminate between 2 sheets of 30 lb. Kraft Paper, 1" jute reinforced.
FSK	-	Scrim reinforced .001" thick aluminum foil laminated with 50 lb. flame proofed Kraft Paper using a flame resistant adhesive.
AV	-	.004" Aluminum Pigmented Vinyl Film
AF	-	.0025" Embossed Aluminum Foil attached with a non-flammable adhesive.
AP	-	8 lb. Asbestos Paper

The 6# and 8# density Spun Felt Insulation is available with a Black Neoprene Coating on one side.

Density • Standard • 3, 3.5, 4, 6 and 8 lb./cu. ft.



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Technical Data:

Continued.....

Thermal Conductivity - (See Charts also)

<u>Mean Temp.</u>	<u>Density</u>			
	<u>3.0</u>	<u>4.0</u>	<u>6.0</u>	<u>8.0</u>
50°F	.25	.24	---	---
75	.27	.26	.24	.24
100	.29	.27	.25	.25
200	.34	.31	.29	.28
300	.42	.38	.36	.35
400	.53	.48	.46	.43
500	---	---	.57	.53

Chemical Analysis (typical)

SiO ₂	43%
Al ₂ O ₃	11%
CaO	32%
MgO	11%
FeO	2%

Surface Temperature and Heat Losses - (see nomograph)

Specifications:

Federal Specification HH-1-521c, Type I, Class A,
2-1/2 lb./cubic foot density.
Federal Specification HH-1-542, Type II.
Federal Specification HH-1-562, Type I, Class 2.
Federal Specification HH-1-563, Type II, Class D.
Federal Specification HH-1-564, Form 1 or 2, Class A and B,
8 lb. density or higher.
Military Specification MIL-1-16688C.
U.S. Maritime Commission Specification 32-MC-1,
3 to 8 lb./cu. ft. density.
U.S. Coast Guard, Incombustible Material 164.009/26/0,
2-1/2 lb. through 4 lb.
U.S. Coast Guard, Structural Insulation 164.007/18/0,
6 lb. density.
U.S. Coast Guard, Structural Insulation 164.007/22/0,
8 lb. density.
Commercial Standard CS 103 - Felt
Commercial Standard CS 117 - Felt
ASTM C 244-55T ASTM C 352-56T

Packaging:

Corrugated boxes, to fit standard sizes.
On customer's request - bundles wrapped in Kraft paper.

TABLE SHOWING VARIOUS TYPES OF FELT

Comparable to Baldwin-Ehret-Hill Felts

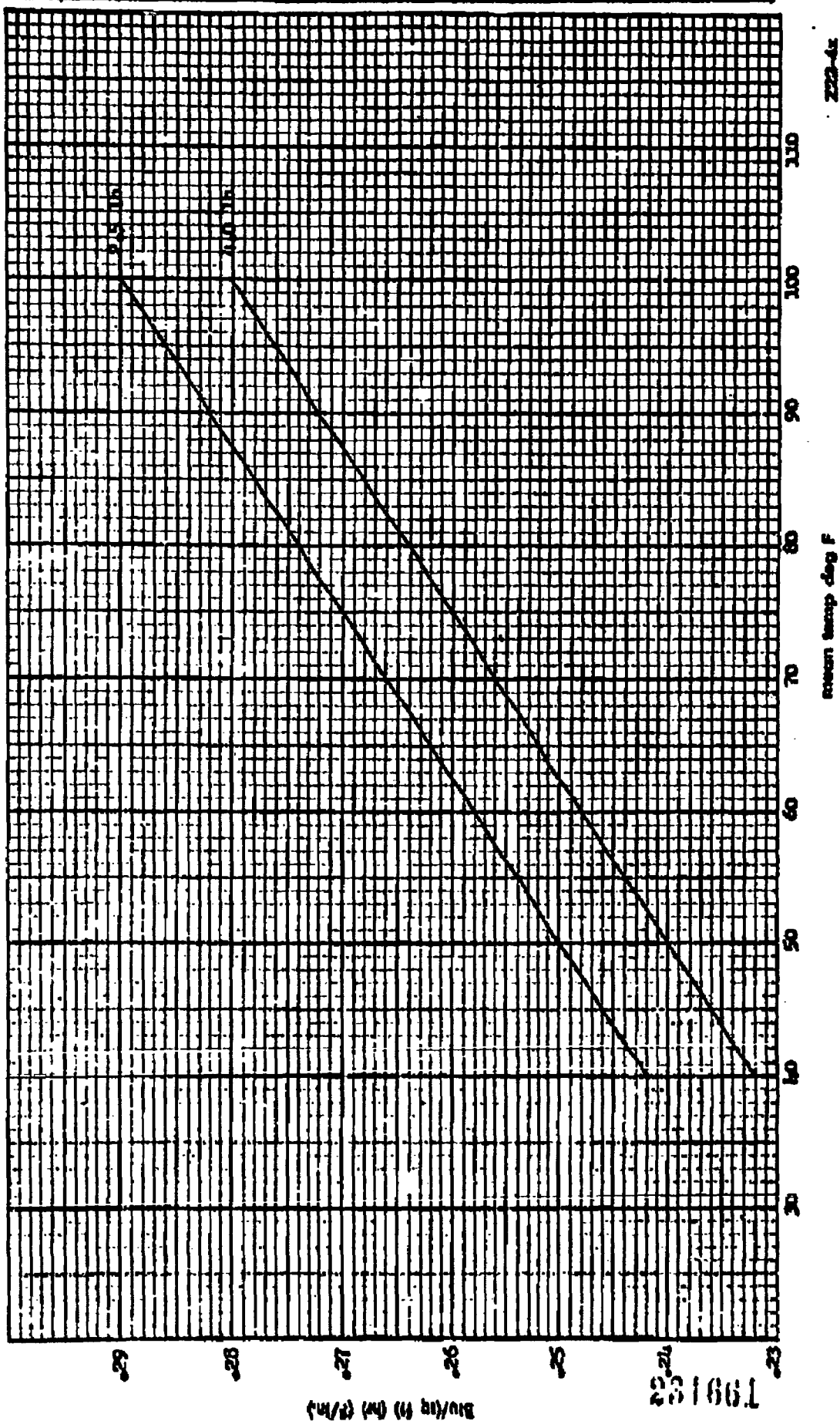
Density	B-E-H	G-B	J-M	Owens-Corning	Pittsburgh Plate
1/28	1/28 FF	501	1/28	PF 314 or PF 334	8-314
3/48	3/48 FF	751	3/48	PF 315 or PF 335	8-315
18	18 FF	1001	18	PF 316 or PF 336	8-316
1-1/28	1-1/28 FF	1501	1-1/28	PF 318 or PF 338	8-317
28	28 FF	2001	28	PF 611 or PF 511	
				PF 319 or PF 339	8-318
2-1/28	2-1/28 Spun	2501	38, 411	PF 612	
				PF 512	
38	38 Spun	3001			8-319
3-1/48				PF 512-H	
3-1/28	3-1/28 Spun		412	PF 613	
3-3/48				PF 513	
48	48 Spun				
4-1/48			413	PF 614	
68	68 Spun		414	PF 615	
88			415		
98				PF 617	

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BALDWIN-KIERULFF, 500 Broadway Avenue, Trenton 2, New Jersey

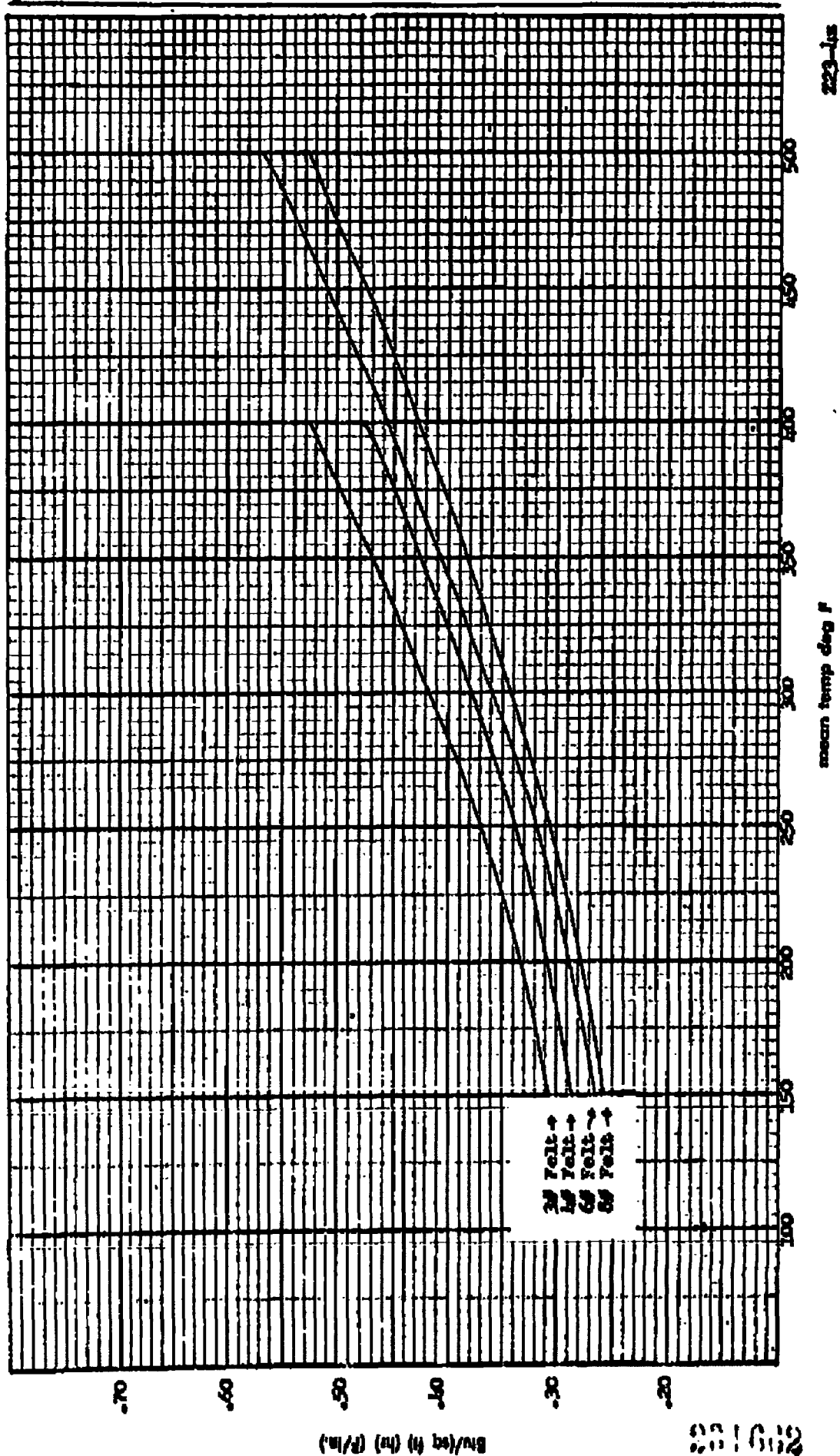
THERMAL CONDUCTIVITY OF B-S-H SPUN FELT (A)





BALDWIN-HILL, 300 Broadway Avenue, Trenton 2, New Jersey

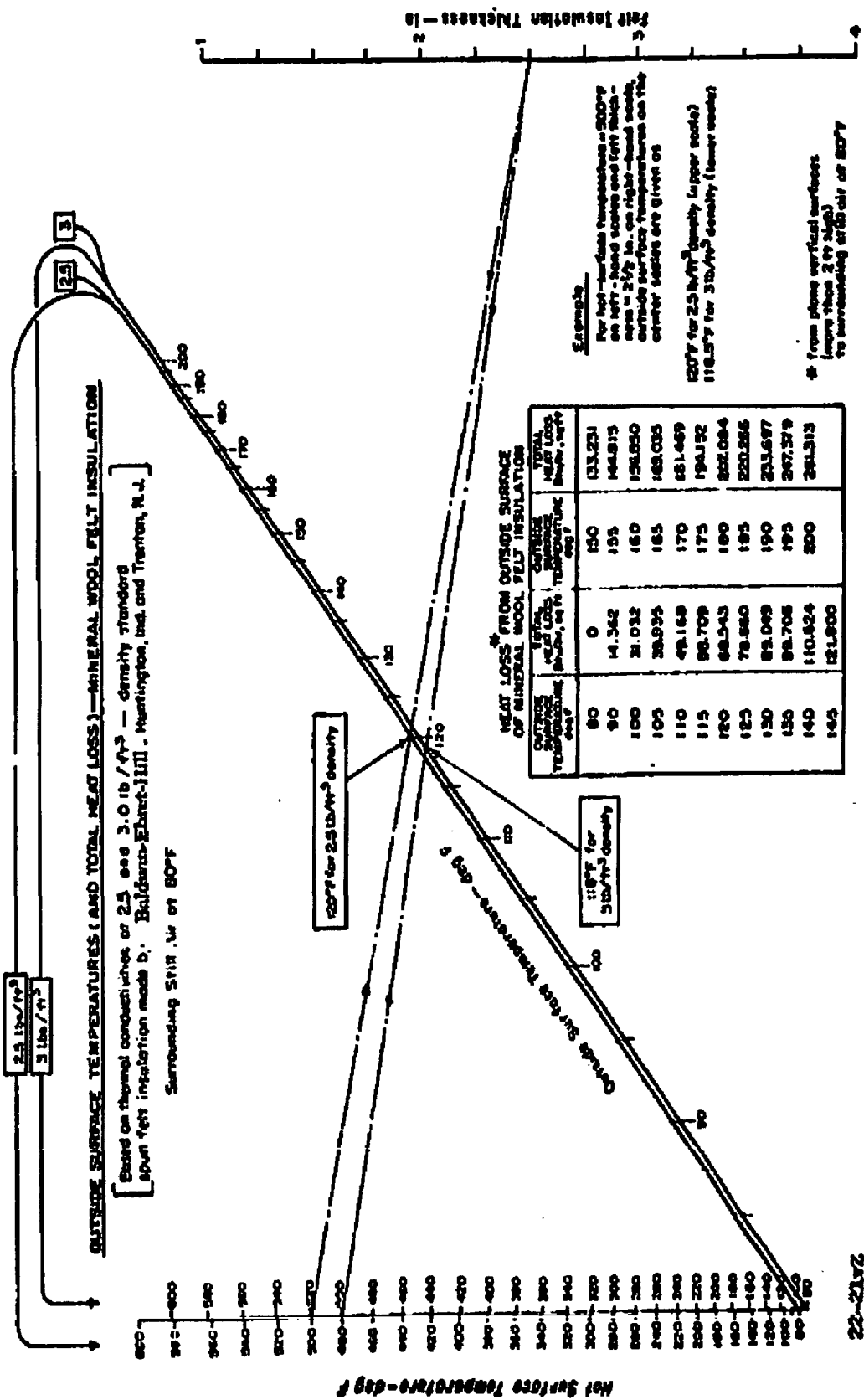
THERMAL CONDUCTIVITY OF 5-5-H SPUN FET INSULATION (B)



223-125

mean temp deg F

231662



899163