



BALDWIN-HILL COMPANY, TRENTON 2, NEW JERSEY

DATA SHEET

Product: Baldwin-Hill Spun Felt Insulation

Description: Flexible and semi-rigid felt insulation, in densities from 2.5 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 6" by 1/2" increments

Rigidity - Flexible and semi-rigid types available in 2.5 and 3 lb. density; 4 lb. and higher densities are semi-rigid or rigid.

Density - Standard, 2.5 - 3 and 4 lb./cu. ft.
Special density on order 6 lb./cu. ft. and higher.

Thermal Conductivity - (See Charts also)

	Density - <u>2.5</u>	<u>3.0</u>	<u>4.0</u>	<u>6.0</u>
<u>Mean Temp.</u>				
50°F	.258	.252	.243	-
75	.278	.271	.258	-
100	.298	.290	.273	.25
200	.365	.315	.313	.29
300	.45	.41	.375	.36
400	.55	.49	.435	.41
500	-	-	-	.57

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Chemical Analysis (typical)

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

Surface Temperature and Heat Losses (see monograph)

Specifications:

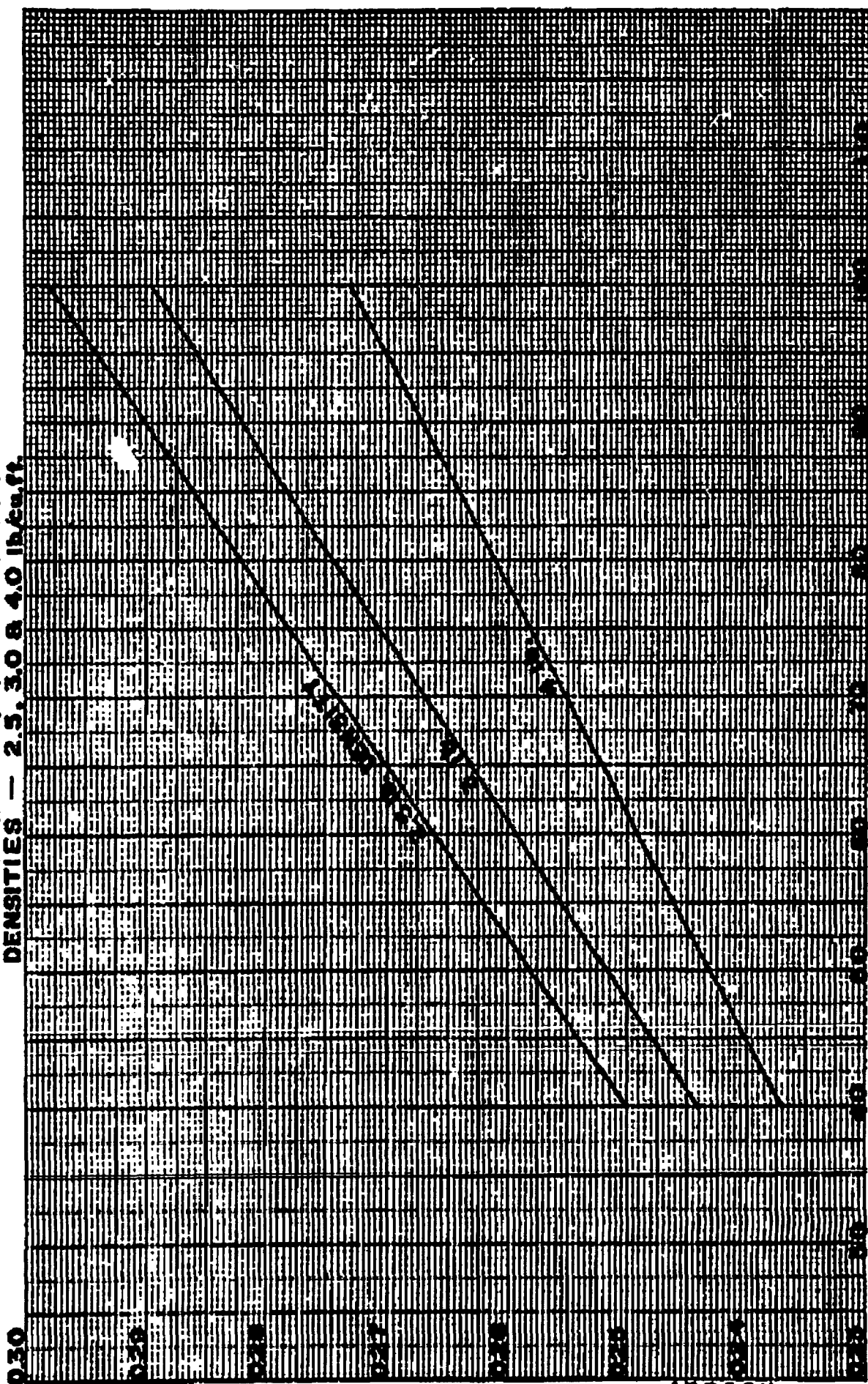
Federal Specification HH-1-321c, Type I, Class A,
2-1/2 lb./cubic foot density.
Federal Specification HH-1-342, Type II.
Federal Specification HH-1-363, Type II, Class D.
Federal Specification HH-1-364, Form 1 or 2, Class A
and B, 8 lb. density or higher.
Military Specification MIL-I-16688C.
U. S. Maritime Commission Specification 32-MC-1,
3 to 8 lb./cu.ft. density.
U. S. Coast Guard, Incombustible Material 144.009/28/0,
2-1/2 lb. through 4 lb.
U. S. Coast Guard, Structural Insulation 144.007/18/0,
6 lb. density.
U. S. Coast Guard, Structural Insulation 144.007/22/0,
8 lb. density.
Commercial Standard CS 105 - Felt.
Commercial Standard CS 117 - Felt.
ASTM C 264-55T.
ASTM C 382-56T.

Packaging:

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

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**THERMAL CONDUCTIVITY OF BH SPUN FELT
DENSITIES - 2.5, 3.0 & 4.0 lb/cu.ft.**

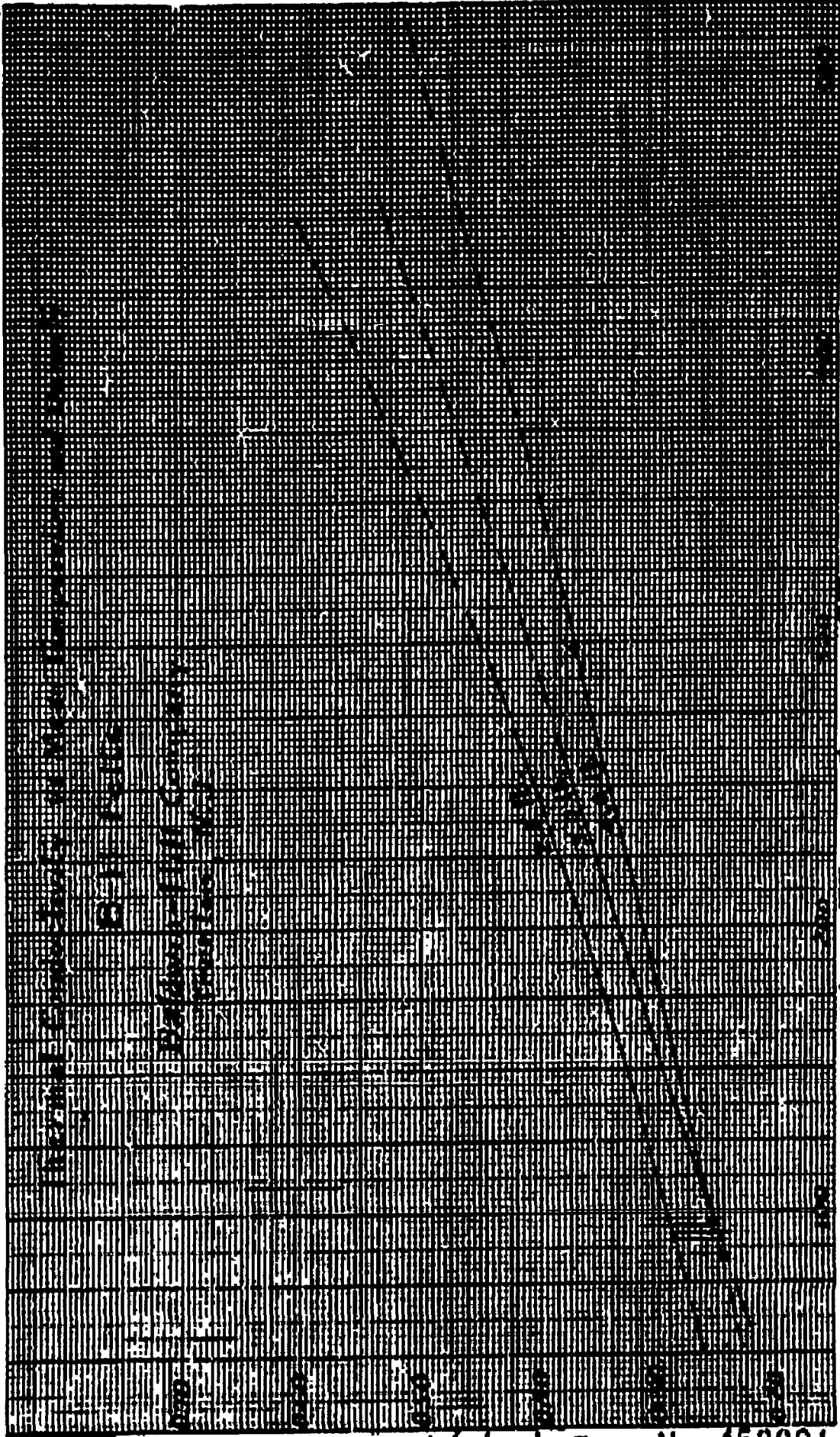


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MEAN TEMPERATURE - °F

11-10-66

180054 K - BTU, hr⁻¹, ft², inch, °F⁻¹

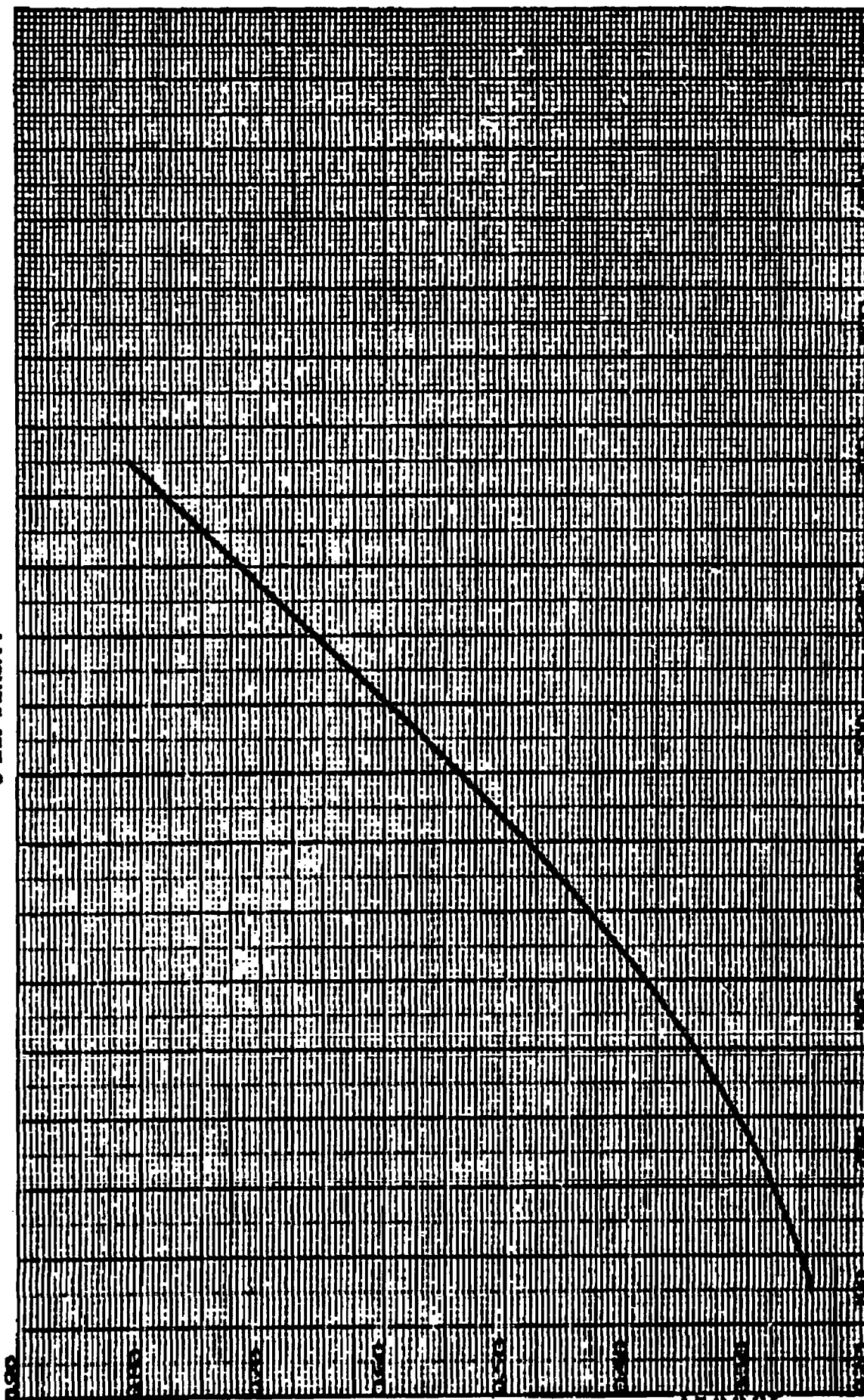


180054 K - BTU, hr⁻¹, ft², inch, °F⁻¹

Mean Temperature - °F

Time - hr

**THERMAL CONDUCTIVITY OF E-H SPUN FELT
6 LB. DENSITY**



by In./ft. at 1 deg F

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Mean Temp °F