PLAINTIFF'S
EXHIBIT
KN-402

BALDWIN-HILL COMPANY, TRENTON 9, NEW JERSEY

DATA SHEET

Product: B-H No. 1 Cement

Description: Dry mix of spun mineral wool granules, bentonite clay, and asbestos fiber, for mixing with water and application by trowel. After drying, it is effective insulation for heated surfaces.

Uses: It is applied as a levelling material over insulating blocks, blankets, etc., as complete insulation on irregular surfaces, as patching or repair material, or for general insulating and maintenance work.

Features:
No stock problem - one material for all jobs
Lightweight - easy application - high plasticity
Rust-inhibiting - non-corrosive
IMFI "Certified" label - conforms to CS 117
Re-usable if not heated over 1200F

Technical Data:
Maximum temperature----------1800F
Water ratio: For general use - 12.5 gallons per bag of 50 pounds - water/cement ratio of 2.1 (amount governed by plasticity required)
Dried Cement Properties:
Density - 26. lb. per cu. ft.
Thermal Conductivity -

Mean Temp	K
200F	.57
400	.65
600	.73
800	.83

Coverage, Dry - 45 sq. ft. 1 inch thick, per 100 pounds
Adhesion to Steel - 7 lb. per sq. in.
Linear Shrinkage after heating at 1600F - 2%
Surface Temperature and Heat Losses - (See Charts)
Thickness recommended - (See Catalog)

Specifications:
Federal Specification HH C 168
Military Specification MIL-C-2861, Type B, Approved by U. S. Navy QPL 2861, EES B-83, 1/11/39
Commercial Standard CS 117 - Insulating Cement
ASTM C 195

Packaging: Multi-wall paper bags containing 50 pounds each

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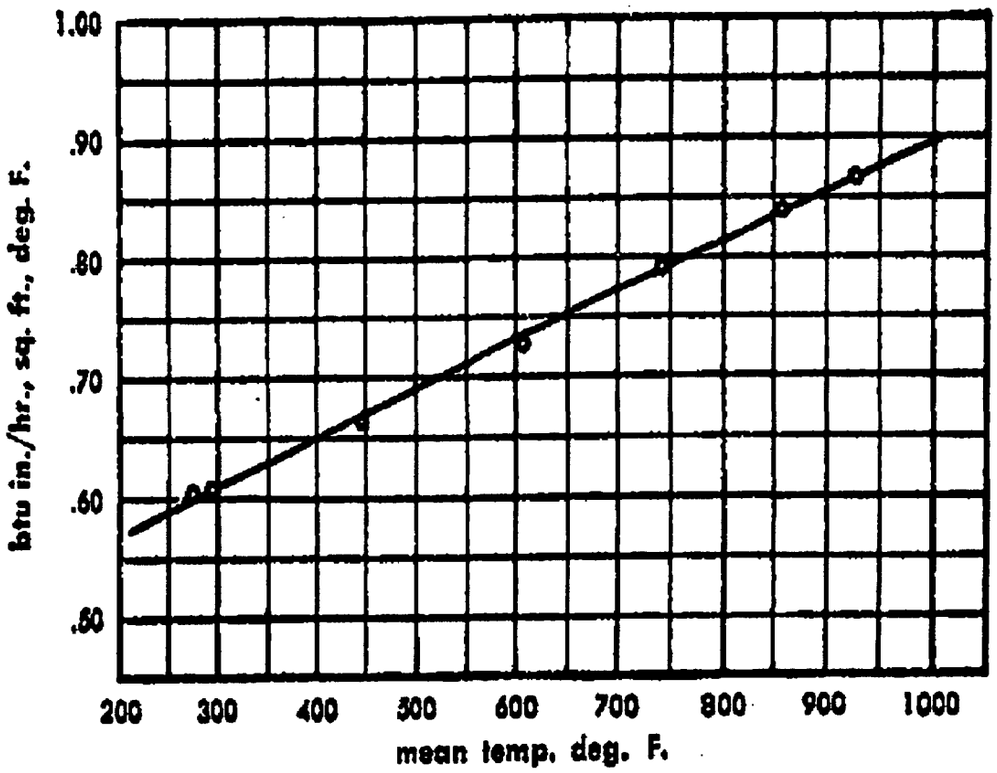
thermal conductivity of B-H No. 1 Insulating Cement



Data Recorded and Results of Plate Test for Conductivity

Run No.	Date of Run 1928	Average temp. of spec., °F. Hot Side	Cold Side	Mean temp. between hot and cold sides °F	Average Thickness of specimen inches	Area of center section of specimen sq. ft.	Watts supplied center area	BTU supplied to center area/ sq. ft./ hour	Thermal conductivity, Btu/sq. ft./hr./in. thick./°F. temp difference.
1	8/4	468	124	296.0	1.0	0.1715	10.5	209.055	0.608
2	8/9	732	163	447.5	1.0	0.1715	19.0	378.290	0.665
3	8/11	1005	210	607.5	1.0	0.1715	29.0	577.390	0.726
4	8/16	1231	249	740.0	1.0	0.1715	39.0	776.490	0.791
5	8/19	1414	300	857.0	1.0	0.1715	47.0	935.770	0.840
6	8/23	1524	328	926.0	1.0	0.1715	52.0	1035.320	0.866
7	8/31	439	110	274.5	1.0	0.1715	10.0	199.100	0.605

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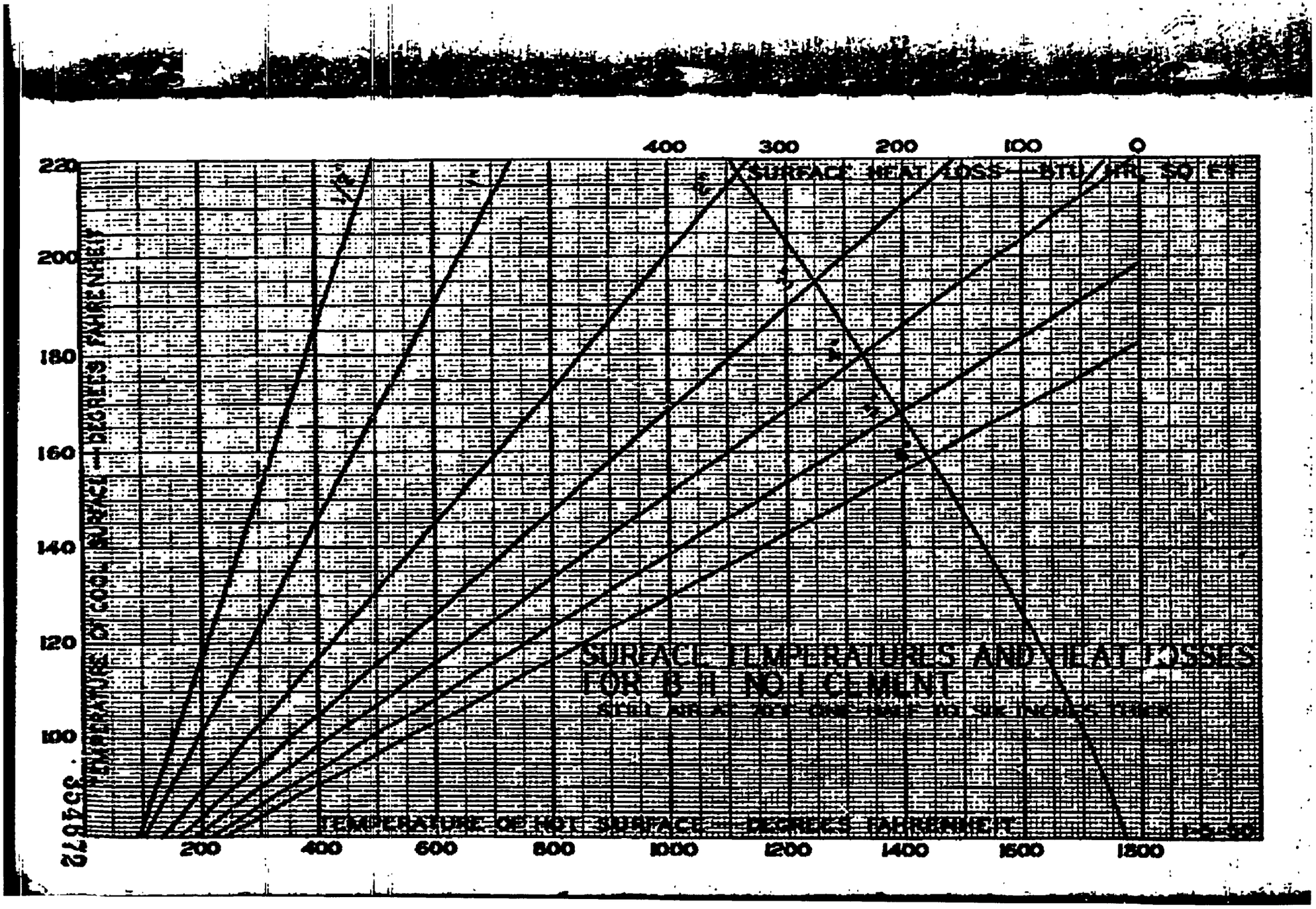
SURFACE TEMPERATURES AND HEAT LOSSES
FOR B-H NO. 1 CEMENT
SURFACE HEAT LOSS — BTU/HR. SQ. FT.
TEMPERATURE OF HOT SURFACE — DEGREES FAHRENHEIT
TEMPERATURE OF COOL SURFACE — DEGREES FAHRENHEIT
0
100
200
300
400
200
400
600
800
1000
1200
1400
1600
1800
100
120
140
160
180
200
220
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