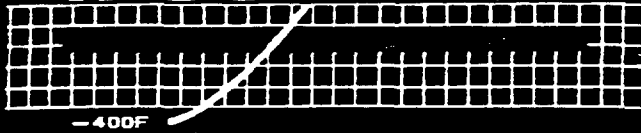
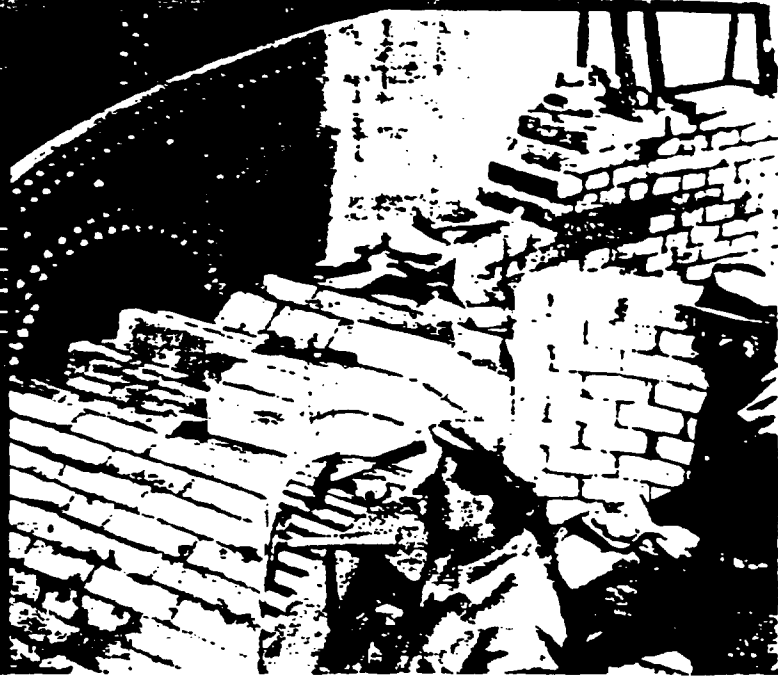


INSULATION



type: Brick
temp limit: 2500F



J-M SIL-O-CEL® INSULATING BRICK

■ **DESCRIPTION:** Made from diatomaceous silica, a material composed of millions of microscopic cells that offer maximum resistance to heat flow, Sil-O-Cel Insulating Brick are particularly useful where high load-bearing characteristics are required. Sil-O-Cel Insulating Brick are furnished in three types for use as back-up insulation behind refractory fire brick linings or behind insulating fire brick linings. The new Sil-O-Cel 16L brick may also be used for exposed as well as back-up service.

■ AVAILABLE TYPES:

Sil-O-Cel Insulating Brick are furnished in three different types as follows:

Sil-O-Cel Super—for temperatures to 2500F back-up only.

Sil-O-Cel C-22—for temperatures to 2000F back-up only.

Sil-O-Cel 16L—for temperatures to 1600F back-up or exposed.

■ **USES:** Sil-O-Cel Insulating Brick are recommended for use as back-up insulation in furnaces, kilns, hot blast stoves, soaking pits, boiler walls, oil heaters, regenerators, and similar high temperature equipment in the steel, chemical, ceramic, power, petroleum and glass industries.

■ ADVANTAGES

Good Insulating Value

Used as back-up insulation, Sil-O-Cel Insulating Brick make it possible to reduce the necessary thickness of the exposed refractory as much as one-third. This results in substantial savings in furnace wall construction for all the types of high temperature equipment for which these brick are recommended.

High Load Bearing Strength

Sil-O-Cel Insulating Brick are made from diatomaceous silica, a natural fossilized material which imparts to the finished brick great strength. The Sil-O-Cel C-22 brick, for example, has a cold crushing strength of 700 lbs per square inch.

PLAINTIFF'S
EXHIBIT
K-1582

DEFENDANT'S
EXHIBIT

07-153

J-M History
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SIL-O-CEL INSULATING BRICK

Specification Data

	Super	C-22	16L
Temperature Limit	2500F**	2000F**	1600F***
Approximate Density	40 pcf	38 pcf	34 pcf
Transverse Strength	90 psi	115 psi	60 psi
Cold Crushing Strength	300 psi	700 psi	350 psi
Linear Shrinkage	2.0% at 2500F	0.8% at 2000F	0.7% at 1600F
Reversible Thermal Expansion	1.3% at 2000F	0.7% at 2000F	less than 0.1% at 1600F

*The figures given in this table are average values obtained in accordance with accepted test methods.
 Back-up only. *Back-up or exposed.

	MEAN TEMPERATURE, F			
	500	1000	1500	2000
Super	1.70	1.95	2.19	2.45
C-22	1.67	1.88	2.08	—
16L	0.92	1.07	1.22	—

CONDUCTIVITY: BTU IN. PER SQ FT PER F PER HR

COMPLIANCE WITH GOVERNMENT SPECS

Sil-O-Cel Super complies with MIL-B-16182B

STANDARD SIZES

Type
 Sil-O-Cel Super
 Sil-O-Cel C-22
 Sil-O-Cel 16L

Size
 Furnished in all standard 9 in. shapes of the 2½ and 3 in. series, as well as special shapes.

PACKAGING INFORMATION

All Sil-O-Cel Insulating Brick are packaged 25 to a carton.

Johns-Manville

General Headquarters: 22 East 40th Street, New York 16, N. Y.

Offices in all large cities