

**JOHNS-MANVILLE CORPORATION
FINISHED PRODUCT SPECIFICATION**

Insulations DIVISION

SUPEREX FURNACE BLOCKS (PLAIN)
SUPEREX FURNACE BLOCKS (SILICATED)

SPEC. NO.

432-4

PAGE NO.

4.

V. QUALITY REQUIREMENTS:

Note: Values determined on Superex Furnace Block (Plain) except as noted.

A. Density (lbs/cu ft)

Desired Maximum - 24#
Maximum - 27#

B. Modulus of Rupture (psi)

Minimum - 60

C. Abrasion Loss (percent)

1. 10 min. - 40 maximum
2. 20 min. - 70 maximum

**D. Hardness (m.m. by Plastometer) As Received
Plain Silicated**

0.75 max. (avg. 5 samples) 0.4 max. (avg. 5 samples)
0.5 max. (individual)

E. Change after Soaking Heat

1. Hardness (4 hrs. at 1900°F) - 0.9 m.m. maximum
2. Loss in Weight (24 hrs. at 1900°F) 10% maximum

F. Linear Shrinkage (percent) (Tested on Unsilicated Block)

1. After 24 hrs. at 1900°F - 3% maximum

G. Magnesia Content - 6% optimum

VI. PACKAGING:

Cases or cartons. Cases when sawdust is used.

Note: Trapezoidal Blocks for American Brake Shoe Co. (4" thick x 6" x 5-1/8") shall be packaged 12 pcs. per 11-5/8 x 12-1/2 x 36-1/4" carton.

For additional packaging information consult Packaging Specification Magnesia and Superex 432-5.

PLAINTIFF'S
EXHIBIT
K-1677

RETURN TO
J-M RESEARCH
FILE ROOM

DEFENDANT'S
EXHIBIT

01-249

X - INDICATES CHANGE - REASON:

Change in title and specification number.
Addition of specification for Magnesia Content

AUTHORITY -
FOR CHANGE

E.C. Lindstrom

FILE-HOLDERS	C.A. de Vyver	W.D. Gaches	IND. ENG.	PROD. SUPT.	PLANT FINANCE OFFICE	RESEARCH LAB.	DIV. QUAL CONTROL	MR. QUAL CONTROL	SUPR. QUAL CONTROL
--------------	------------------	----------------	--------------	----------------	----------------------------	------------------	----------------------	---------------------	-----------------------

SUPERSEDES: Page 4 (issued 1/19/55) of specification 432-5 entitled "Special Tolerance Superex Blocks"

DATE ISSUED
9-15-58