

**Johns-Manville
Research Center**

MVJ R + D 1990

Report No. 431-384

Date June 29, 1960

Title: ARMSTRONG A-25, JM-23 and JM-26 INSULATING FIRE BRICK - PROPERTIES

Requested by: Sales Service Request IN-272

RECEIVED
G. B. BROWN

JUL 14 1960

PLAINTIFF'S
EXHIBIT
K-1596

SUMMARY

A 75-brick sample of Armstrong A-25 insulating fire brick from General Refractories Company was tested for comparison with JM-23 and JM-26 insulating fire brick. Since A-25 insulating fire brick are manufactured by Armstrong Cork Company for sale by General Refractories Company, the brand name on the specimens was "GREFCO GR-25." JM-26 specimens from laboratory stock were used for determination of shrinkage at 2500F. Samples of JM-23 and JM-26 submitted by Quality Control for annual tests were used for determination of other properties.

A comparison of properties was needed to promote the sale of J-M insulating fire brick to Lindberg Engineering Company.

The results were:

	A-25	JM-23	JM-26
Density, pcf	39.5	44.5	49.9
Modulus of Rupture, psi	175	191	153
Cold Crushing Strength, psi	394	240	255
Linear Change, %			
- 2300F	0.0	-0.1	—
2500F	-4.2	-6.1	-0.6
2600F	—	—	-0.8

Judging from the structure and the strength, it was concluded that cork had been used for the burn-out in the manufacture of A-25 insulating fire brick.

The objectives of Sales Service Request IN-272 were attained.

Contents: Summary, Appendix I - Table, Appendix II - Photographs.

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