

INSULATING FIRE BRICK

Specification Data

PHYSICAL PROPERTIES

PERFORMANCE

	JM-3000	JM-28	JM-26	JM-23	JM-20	JM-1620	Type	No. of Brick per Carton
Temperature Limit	3000F**	2800F**	2600F**	2300F**	2000F**	2000F*** 1600F**		
Approximate Density	65 pcf	58 pcf	51 pcf	31 pcf	29 pcf	27 pcf	JM-3000	20
Transverse Strength	200 psi	175 psi	140 psi	140 psi	100 psi	80 psi	JM-28	20
Cold Crushing Strength	400 psi	300 psi	210 psi	210 psi	150 psi	95 psi	JM-26	25
Linear Shrinkage	†0.8% at 3000F	1.4% at 2800F	1.0% at 2600F	0.1% at 2300F	0.0% at 2000F	0.0% at 2000F	JM-23	25
							JM-20	25
Reversible Thermal Expansion	0.65-0.75% at 2000F	0.65-0.75% at 2000F	0.65-0.75% at 2000F	0.5-0.6% at 2000F	0.5-0.6% at 2000F	0.5-0.6% at 2000F	JM-1620	25

*The figures given in this table are average values obtained in accordance with accepted test methods.

**Back-up or exposed.

***Back-up only.

†24-hr Simulative Service Panel Test; all others 24-hr soaking period.

COMPLIANCE WITH GOVERNMENT SPECS

THERMAL CONDUCTIVITY

JM-20 complies with MIL-B-16305 A, class A
JM-28 complies with MIL-B-16305 A, class B

STANDARD SIZES

Type	Size
JM-3000	Accurately sized in all standard 9 in. shapes of the 2½ and 3 in. series, as well as special shapes.
JM-28	
JM-26	
JM-23	
JM-20	
JM-1620	

	MEAN TEMPERATURE, F			
	500	1000	1500	2000
JM-3000	3.22	3.30	3.37	3.46
JM-28	2.55	2.80	3.06	3.32
JM-26	2.22	2.44	2.68	2.93
JM-23	1.01	1.18	1.34	1.50
JM-20	0.95	1.18	1.27	1.27
JM-1620	0.90	1.07	1.27	—

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

ET-000084

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MATERIAL