

**SPECIFIC HEAT
J-M INSULATING MATERIALS**

Specific Heat of a material is the quantity of heat energy required to produce a unit change in temperature in a unit mass of the material. The common English unit of specific heat is expressed as Btu per F per lb: i.e., the Btu required to change the temperature of one pound of the material one degree F.

Following is a tabulation of those J-M products for which specific heat values are available. Note that the majority range from approximately 0.20 to 0.30. Therefore, in the event a value is required for a J-M product not listed, an average figure would be 0.25.

J-M Product Name	Specific Heats (Btu/F/lb) at following Temperatures, °F										
	200	400	600	800	1000	1200	1400	1600	1800	2000	2200
Sil-O-Cel 16-L and Sil-O-Cel C-22											
Insulating Brick	0.21	0.24	0.26	0.27	0.28	0.29	0.30	0.30	-	-	-
Sil-O-Cel Super Insulating Brick	0.20	0.22	0.23	0.24	0.26	0.27	0.28	0.29	0.30	0.31	0.32
JM-1620 and JM-20 Ins. Fire Brick	0.20	0.22	0.23	0.24	0.25	0.26	0.26	0.27	0.27	0.27	-
JM-23 Insulating Fire Brick . . .	0.20	0.24	0.25	0.26	0.27	0.28	0.29	0.29	0.30	0.30	0.31
JM-26 Insulating Fire Brick . . .	0.20	0.22	0.24	0.25	0.26	0.27	0.28	0.28	0.29	0.29	0.29
Suporex	0.24	0.27	0.28	0.29	0.30	0.31	0.32	-	-	-	-
Marinite-23 } Marinite-36 } Marinite-65 }	. . 0.25	0.28	0.31	0.34	-	-	-	-	-	-	-
85% Magnesia . . .	<u>100F</u> 0.29	<u>200F</u> 0.30	<u>300F</u> 0.31	<u>400F</u> 0.33							
Asbesto-Sponge Felted . .	0.29 at approximately 300F										
Fibrofil	0.24 " " 300F										
Rock Cork	0.27 " " 100F										
Zerolite	0.30 " " 100F										
Asbestocite	0.27 " " 300F										
Transite	0.27 " " 300F										

DEFENDANT'S
EXHIBIT
01-204

JOHNS-MANVILLE Industrial Insulations Division

TECHNICAL DATA SECTION

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IN-3400

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