



CLAYBURN INDUSTRIES LTD.

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 CANADA V2S 5C1
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TECHNICAL DATA - TYPICAL

INSULATING CASTABLES

THERMOLITE 22ES

Classification	An extra strength lightweight 2200°F insulating castable		
Service Limit	2200°F		(1205°C)
Dry Weight Required to Place 1 cu. ft. (m ³)	62 lbs		(990 Kg)
Approx. Water Required for Placement	42%		
<u>Linear Change on Heating</u>			
230°F	(110°C)	Nil %	
1500°F	(816°C)	-0.3 to -0.6%	
2100°F	(1149°C)	-1.0 to -1.5%	
<u>Cold Crushing Strength</u>			
230°F	(110°C)	700-1200 lbs/in ²	(4.8-8.3 MPa)
1500°F	(816°C)	500-1000 lbs/in ²	(3.4-6.9 MPa)
<u>Thermal Conductivity (Mean Temp)</u>		<u>Btu/ft²•Hr•°F/in</u>	<u>W/mK</u>
400°F	(204°C)	2.0	0.29
800°F	(427°C)	2.1	0.30
1200°F	(649°C)	2.3	0.33
<u>Chemical Analysis</u>			
Silica	SiO ₂	41.8%	
Alumina	Al ₂ O ₃	35.5%	
Iron	Fe ₂ O ₃	2.4%	
ASTM Designation	C401 Class "P"		

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**ALL DATA SUBJECT TO REASONABLE DEVIATION AND THEREFORE
 SHOULD NOT BE USED FOR SPECIFICATION PURPOSES**