



CLAYBURN INDUSTRIES LTD.

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TECHNICAL DATA - TYPICAL

INSULATING CASTABLES

THERMOLITE 18

Classification	A lightweight 1800°F insulating castable		
Service Limit	1800°F		(982°C)
Dry Weight Required to Place 1 cu. ft. (m ³)	27 lbs		(430 Kg)
Approx. Water Required for Placement	145%		
<u>Linear Change on Heating</u>			
230°F	(110°C)	Nil %	
1500°F	(816°C)	-0.4 to -1.0%	
1700°F	(927°C)	-1.0 to -1.5%	
<u>Cold Crushing Strength</u>			
230°F	(110°C)	60-120 lbs/in ²	(0.4-0.8 MPa)
1500°F	(816°C)	50-100 lbs/in ²	(0.3-0.7 MPa)
<u>Thermal Conductivity (Mean Temp)</u>		<u>Btu/ft²•Hr•°F/in</u>	<u>W/mK</u>
400°F	(204°C)	0.86	0.12
800°F	(427°C)	0.97	0.14
1200°F	(649°C)	1.05	0.15
<u>Chemical Analysis</u>			
Silica	SiO ₂	38.2%	
Alumina	Al ₂ O ₃	22.2%	
Iron	Fe ₂ O ₃	9.8%	
ASTM Designation	C401 Class "N"		

SEP 06

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