



**CLAYBURN INDUSTRIES LTD.**

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**TECHNICAL DATA - TYPICAL**  
**INSULATING CASTABLES**  
**THERMOLITE 23LI**

Classification	A <u>low iron</u> lightweight 2300°F insulating castable		
Service Limit	2300°F		(1260°C)
Dry Weight Required to Place 1 cu. ft. (m <sup>3</sup> )	54 lbs		(865 Kg)
Approx. Water Required for Placement	43%		
<u>Linear Change on Heating</u>			
230°F	(110°C)	Nil %	
1500°F	(816°C)	-0.4 to -0.7%	
2100°F	(1149°C)	-0.7 to -1.0%	
2300°F	(1260°C)	-0.4 to -1.0%	
<u>Cold Crushing Strength</u>			
230°F	(110°C)	400-800 lbs/in <sup>2</sup>	(2.8-5.5 MPa)
1500°F	(816°C)	300-700 lbs/in <sup>2</sup>	(2.1-4.8 MPa)
2300°F	(1260°C)	300-700 lbs/in <sup>2</sup>	(2.1-4.8 MPa)
<u>Thermal Conductivity (Mean Temp)</u>		<u>Btu/ft<sup>2</sup>•Hr•°F/in</u>	<u>W/mK</u>
400°F	(204°C)	1.7	0.25
800°F	(427°C)	1.8	0.26
1200°F	(649°C)	1.9	0.27
<u>Chemical Analysis</u>			
Silica	SiO <sub>2</sub>	43.0%	
Alumina	Al <sub>2</sub> O <sub>3</sub>	38.0%	
Iron	Fe <sub>2</sub> O <sub>3</sub>	1.0%	
ASTM Designation	C401 Class "Q"		

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