



TECHNICAL DATA - TYPICAL

CASTABLES

CASTABLE 640

Classification	A high strength castable designed specifically for cathode refractory applications		
Service Limit	2500°F		(1370°C)
Dry Weight Required to Place 1 cu. ft. (m ³)	114 lbs		(1830 Kg)
Approx. Water Required for Placement	16%		
<u>Linear Change on Heating</u>			
230°F	(110°C)	Nil %	
1500°F	(816°C)	-0.1 to -0.4%	
2300°F	(1260°C)	-0.5 to +0.5%	
<u>Cold Crushing Strength</u>			
230°F	(110°C)	1800-3500 lbs/in ²	(12-24 MPa)
1500°F	(816°C)	1500-3000 lbs/in ²	(10-21 MPa)
<u>Modulus of Rupture</u>			
230°F	(110°C)	400-800 lbs/in ²	(2.8-5.5 MPa)
1500°F	(816°C)	200-400 lbs/in ²	(1.4-2.8 MPa)
<u>Chemical Analysis</u>			
Silica	SiO ₂	48-52%	
Alumina	Al ₂ O ₃	26-29%	
Titania	TiO ₂	1-2%	
Iron	Fe ₂ O ₃	7-10%	
Lime	CaO	8-10%	
Magnesia	MgO	1-2%	
ASTM Designation	C401 Class "B"		

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