

Mullite Bonded Free Flowing Cement Free Versatile Castable System

Description	Sharada RFC-45	Sharada RFC-60	Sharada RFC-70	Sharada RFC-80	Sharada RFC-90	Sharada RFC-95	Sharada RFC-Fused Silica	Sharada RCF-LW	Sharada AIO-SiC-C
Base Material	Molochite	Sintered Mullite	Fused Mullite	Low Iron Bauxite	Brown Fused Alumina	White Fused Alumina	Fused Silica	Insulation Aggregate	Cal. Bauxite/Sic/C
Chemical Analysis									
Al ₂ O ₃	45	60	70	80	90	95		40	70
Fe ₂ O ₃	1	1.5	0.8	1.5	1	0.3	0.3	1	1.5
Bulk Density									
200°C	2.3	2.5	2.6	2.8	2.9	3	1.9	1.5	2.5
800°C	2.2	2.4	2.5	2.7	2.8	2.9	1.8	1.45	2.4
1400°C	2.1	2.3	2.4	2.6	2.7	2.8	1.7	1.4	2.3
Cold Crushing Strength									
800°C	350	400	450	500	600	700	350	90	220
1400°C	500	600	600	700	800	900	500	100	250
Apparent Porosity									
800°C	17	16	16	15	13	12	17	38	20
1400°C	18	17	17	16	14	13	18	40	21
Permanent Linear Change									
1400°C	+/- 1.0	+/- 1.0	+/- 1.0	+/- 1.0	+/- 1.0	+/- 1.0	+/- 1.0	+/- 1.0	+/- 1.0
H MOR 1400°C	80	100	150	120	180	200	120	NA	NA