PRODUCT INFORMATION SHEET
CONVENTIONAL MONOLITHICS

SHIRACAST 125

SHIRACAST® 125 is a dense castable based on chamotte and calcium aluminate cement. **SHIRACAST 125** is a good general purpose castable, capable of being gunned or cast into place. Alternatively, where an excellent surface finish is required, the material can easily be trowelled into place.

The comprehensive range of **SHIRACAST** dense castables covers the complete temperature spectrum up to 1850°C. Four classes of product are offered; standard, abrasion resistant, gunning and extra-coarse aggregate. These products have been designed utilising different aggregates and cement binders to ensure they meet the requirements of most applications.

TYPICAL PROPERTIES

Bulk Density (kg/m^3)	
After Heating to 110°C	2070 - 2170
After Firing to 1000°C	1910 - 2010
After Firing to 1200°C	1930 - 2030
Cold Crushing Strength (MPa)	
After Heating to 110°C	30 - 50
After Firing to 1000°C	15 - 30
After Firing to 1200°C	15 - 30
Modulus of Rupture (MPa)	
After Heating to 110°C	6 - 10
After Firing to 1000°C	2 - 5
After Firing to 1200°C	1 - 3
Permanent Linear Change (%)	
After Heating for 24 hrs at 110°C	-0.1 to 0.0
After Firing for 5 hrs at 1000°C	-0.3 to -0.1
After Firing for 5 hours at 1200°C	-0.4 to -0.2

	%
Al_2O_3	45
SiO_2	37
Fe_2O_3	5.0
TiO_2	1.1
CaO	11.6
MgO	0.3
Alkalies	0.3
Maximum Service Temperature (°C):	1250
Nominal Shelf Life (months):	12 months

Approximate Thermal Conductivity:

°C	250	500	750	1000	1250
W/mK	1.08	1.11	1.12	1.15	1.17

Installation Procedure	IP/001
Heat Up Schedule	HS/001

APPLICATION DATA

CASTING

Net Quantity of Dry Material Required for Placement (kg/m^3)	1950
Water Required for Mixing (%)	14.0 - 15.0