

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)		Al ₂ O ₃	45
After Heating to 110°C.....	2070 - 2170	SiO ₂	37
After Firing to 1000°C.....	1910 - 2010	Fe ₂ O ₃	5.0
After Firing to 1200°C.....	1930 - 2030	TiO ₂	1.1
		CaO.....	11.6
Cold Crushing Strength (MPa)		MgO.....	0.3
After Heating to 110°C.....	30 - 50	Alkalies.....	0.3
After Firing to 1000°C.....	15 - 30		
After Firing to 1200°C.....	15 - 30	Maximum Service Temperature (°C):	1250
		Nominal Shelf Life (months):	12 months
Modulus of Rupture (MPa)		Approximate Thermal Conductivity:	
After Heating to 110°C.....	6 - 10	°C 250 500 750 1000 1250	
After Firing to 1000°C.....	2 - 5	W/mK 1.08 1.11 1.12 1.15 1.17	
After Firing to 1200°C.....	1 - 3		
Permanent Linear Change (%)		Installation Procedure.....	IP/001
After Heating for 24 hrs at 110°C.....	-0.1 to 0.0	Heat Up Schedule.....	HS/001
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		

APPLICATION DATA

CASTING

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

REV: 0

Status: Standard

PIS Number: 5520

Date of Revision:

This data contains typical properties only and should not be used for specification purposes. It is intended as a guide only. For specification and estimating purposes, contact your nearest Shinagawa representative. Australian Standard Test Methods AS1774 are used where applicable. Refer to the Material Safety Data Sheet (MSDS) for recommended work practices and other product safety information.

