

INVESTMENT CASTING RANGE

		Pouring Cups	Vent Plugs	Support Rods	Vent Plugs
Composition					
Minerology	--	Mullite	Mullite	Alumina	Cordierite
Al ₂ O ₃	%	65	70	95	45
SiO ₂	%	30	25	3	45
Fe ₂ O ₃	%	0.5	0.5	0.05	1.2
Other	%	3	3	2	8
Properties					
Max. Service Temp.	°C / °F	1650 / 3000	1650 / 3000	1650 / 3000	1200 / 2200
Bulk Density	g/cm ³	2.2	2.0	3.7	2.0
Open Porosity	%	30	29	0	24
Modulus of Rupture (room temp.)	MPa	20	50	250	12
Modulus of Rupture (1250°C / 2280°F)	MPa	15	--	--	13
Thermal Expansion (20 – 1000 °C / 70 – 1830 °F)	x10 ⁻⁶ /K	6.5	5	8	2.5
Specific Heat Capacity	kJ/kg.K	1.0	1.0	0.9	1.0
Thermal Conductivity	W/mK	2	3	25	1.0

This information is given in good faith but does not constitute a specification or guarantee.