

CERATUFF-90 SPECIFICATIONS

S.No	Properties	Test Ref	Value
1.	Composition	IS-1527	>90% Alumina
2.	Average crystal size		4-6 micron
3.	Specific gravity	IS-5913 Guideline	>3.5grm/cc
4.	Fusion temperature		1510deg C
5.	Maximum use temperature		1000 deg C
6.	Compressive strength (20 Degree Centigrade)	ASTM C773	>8000kg/cm ²
7.	Flexural strength (20 Degree Centigrade)	ASTM F417	>2200 kg/cm ²
8.	Hardness (On Moh scale Hv 10)	IS-13630	9
9.	Porosity	IS- 13630	Nil
10.	Fracture Toughness MPam ^{1/2}	Notch Beam	3-4
11.	Coefficient of thermal expansion (20-1000 Degree Centigrade)		7.2 x10 ⁻⁶ per deg C
12.	Density	IS-5913 Guideline	>3.5
13.	Corrosion Resistant (mg/cm ² /day) with 95% H ₂ So ₄ at 20 degree Centigrade	ASTM-G65-04	0.03mg/cm ² /day
14.	Jet Erosion Test 45 deg	ASTM-G76	0.02max
15.	90 deg		0.04max
16.	Abrasion Test Loss	ASTM G65-04	0.05 max
17.	Water absorption	IS- 13630	<0.1%

All the value above are average value and for reference only.

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