

Technical Data Sheet

Ceramite® T

Superior Performance in Wear Resistant Applications

Ceramite® is a range of products incorporating inorganic composite materials and densely packed micro particles, formulated to yield superior performance in applications where wear resistance is a critical operating factor. As a wear resistant material, Ceramite® outperforms special cast steels, cast fused basalt, metal castings, rubber and other state of the art materials. Ceramite® is also used in applications with a wide range of temperature and thermal shock conditions.

Chemical analysis (%) :

Al ₂ O ₃	SiC	SiO ₂	CaO	Fe ₂ O ₃
50-70	5-15	< 15	> 55	< 2

Maximum service temperature: 2192°F (1200°C)

Maximum grain size: 0.2" (5 mm)

Density:

after curing	68°F (20°C)	174.8 lbs./cu.ft. (2.8 kg/dm ³)
after firing	1562°F (850°C)	162.3 lbs./cu.ft. (2.6 kg/dm ³)

Temperature	68°F (20°C)	932°F (500°C)	1562°F (850°C)
Cold compressive strength¹	21,756 – 29,008 psi (150-200 MPa)		14,504 – 17,405 psi (100-120 MPa)
Cold flexural strength¹	2,176 – 2,901 psi (15-20 MPa)		1,160 – 1,595 psi (8-11 MPa)
Abrasion test³	0.02" (0.5 mm)	0.02" (0.5 mm)	

Water addition: 5.4 - 6.5 weight %

Installation: Trowelling

Packing: 55 lbs. or 440 lbs. (25 kg or 200 kg)

Shelf life:⁴ 6 months

All data are average numbers and are not to be considered as specifications.

¹ASTM C349, The sample is pre-fired at given temperature.

²ASTM C348, The sample is pre-fired at given temperature.

³DIN 52108, The sample is pre-fired at given temperature.

⁴Ceramite is to be stored in dry conditions, off the ground. In this case, it will retain its properties for at least 6 months. In many cases, experience has demonstrated that properties are retained for more than a year.

Ceramite® T: A refractory trowellable based on bauxite and silicon carbide.

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