

Fibrox 100FC

Typical Physical Properties

Color	Off White
Density	2.7 - 2.9 GMS/CC
Hardness	6.0 Mohs
Fiber Diameter	5 - 6 Microns, by population
Fiber Diameter Range	1 - 20 Microns
Fiber Length (Average)	125 ±50 Microns
Non-Fibrous Material	7-10% average by weight
Fiber Tensile Strength	80,000 psi
Fiber Tensile Modulus	1.5 - 6 x 10 ⁶ psi
Refractive Index	1.62 - 1.64
Shrinkage	2.4% at 1600° F (871°C)
Devitrification Temperature	Above 1550° F (843°C)
Melting Point	Above 2000° F (1093°C)
Operating Temperatures	Up to 1500° F (815°C)

Typical Chemical Composition

Oxide	Weight Percent*
SiO ₂	40-50 %
CaO	15-25 %
Al ₂ O ₃	10-16 %
MgO	5-10 %
Other	6-10%

* Range for major oxides

Typical Packaging

In 50 lb plastic or lined paper bags.

All production from Fibrox plant in Millwood, West Virginia, USA.

Typical End Uses

Friction Materials	→	Reinforcement / Wear
Gaskets	→	Heat Resistance
Plastics	→	Shape Retention
Paints	→	Coverage & Coating Strength
Caulks and Sealants	→	Heat Resistance & Viscosity Modifier

Last Revised June, 2014