Product Description

Techneglas UHTR-F is a solid, flake resin for high temperature FRP panel fabrication, designed to handle service temperatures ranging from 500°F to up to 1832°F (260°C – 1000°C) with little to no weight loss.

Techneglas UHTR-F resin may be used with common fiber reinforcements, including:

Carbon fiber Glass Fiber Silica Basalt

Techneglas UHTR-F resin is used to prepare FRP composite panels that will be used in applications where operation temperatures range from 500°F to 1832°F and does not require a post-cure cycle at, or above the anticipated service temperature of the fabricated parts.

Cure Guidelines

Techneglas UHTR-F can be thermally cured or catalyzed with the following:

- Titanium (IV) Butoxide at 2-3 wt%
  - Cures at 150°C in 1-2 hrs, post-cure as needed
- N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane at 1-2 wt%
  - Sets up at room temp ~24-48 hrs
  - Cure at 150°C in 1-2 hrs, post-cure as needed
- Thermally:
  - Cure at 225°C for 2-3 hrs followed by post-cure as needed

Product Data

Uncured Techneglas UHTR-F

Appearance	White solid
Melting Point	100°C
Resin Content	>99%
Odor	Slight
V.O.C.	TBD
Density	1.2 g/mL (10.0 lb/gal)
Liquid Ignition Temperature	>300°C

Storage

Techneglas UHTR should be refrigerated and has a shelf-life of 6 months from the date of manufacturing.

Safety Notes

Comprehensive instructions are given in the corresponding Safety Data Sheets which are available upon request or at www.techneglas.com.

Techneglas LLC 2100 North Wilkinson Way Perrysburg, Ohio 43551 (419) 873-2000 FAX (419) 873-2020