

Product Description

Techneglas UHTR 9863-S is a semi-solid resin system 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 9863-S resin may be used with common fiber reinforcements, including:

Carbon fiber

Glass Fiber

Silica

Basalt

Techneglas UHTR 9863-S 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 9863-S can be thermally cured at 225°C for 2-3 hrs followed by post-cure as needed.

Techneglas UHTR 9863-S can be catalyzed for lower temperature cure, or faster cure at elevated temperature. Catalyst examples include:

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|--|-----------|
| • Titanium (IV) Butoxide | 2-3 wt% |
| • N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane | 1-2 wt% |
| • 1-(2-cyanoethyl)-2-ethyl-4-methylimidazole | 0.5-2 wt% |

Product Data

Uncured Techneglas UHTR 9863-S

Appearance	Colorless/white semi-solid
Viscosity	5,000 cPs (50°C)
Resin Content	>99%
Odor	Slight
V.O.C.	Zero
Density	1.2 g/mL (10.0 lb/gal)
Liquid Ignition Temperature	>300°C
Tg	>500°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/sds/.