

Adelphi HTA1760-1

High Temperature 3000F, Chemical Resistant Adhesive

Adelphi HTA1760-1 is a single component high temperature ceramic and graphite adhesive, it has a wide application in bonding, potting and sealing of following:

- Ceramics
- Composites
- Graphite
- Metals
- Quartz
- Semiconductors

The applications are for temperatures up to 3000 °F (1650°C). HTA1760-1 is recommended for mechanical, electrical, instruments and sensor applications.

Temperature Limit, °F (°C)	Components	Viscosity, cP	CTE, in/in/°F x 10 ⁻⁶ (°C)	Application Temperature, °F(°C)	Air Set, Hours	Heat Cure, °F, Hours	Shelf Life, Months
3000 (1650)	1	40000-80000	4.3 (7.7)	50-90 (10-32)	1-4	200, 2	6

Dielectric Strength, volts/mil @ RT	Torque Strength, ft-lbs	After curing at 700 °F for 2 hours.		
		Moisture resistance	Alkali Resistance	Acid Resistance
182	57	Excellent	Excellent	Good

Adelphi Materials LLC USA
 Phone 631-537-8390
 Ph USA Office. 631-537-8390
sales@adelphimaterials.com
 Fax: 631-537-8219
sales@adelphimaterials.com
www.adelphimaterials.com

Adelphi Materials, LLC INDIA
 Ph: Direct +91-9998085244
kartik@adelphimaterials.com



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Surface Preparation:

For smooth surfaces etching, abrasive blasting or oxidization is required. Clean parts prior to application.

Porous substrates should be pre-coated with a binder to prevent separation and absorption of the adhesive.

Preparation of Adhesive:

Stir each part individually. Proportion accurately and mix slowly to avoid entrapping air.

Application:

Apply a thin coat of adhesive to each surface using a brush, spatula or dispenser.

Using a clamp or similar tool, maintain a uniform glue line of 2-8mils (200-500 microns) and apply even pressure across the assembly.

Wipe away excess material prior to curing.

Curing:

HTA1760-1 requires an air set time of 1 hour followed by a heat cured of 2hours or 200F/903C

Technical Questions? Call us. We are happy to help! +631-537-8390

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