



### Ceramabond 670/671

#### Decription

**Ceramabond 670** is an anorganic 1-K adhesive. This adhesive creates inseparable bonds between ceramic textiles, porous ceramics and insulation of surfaces and panels. With a temperature resistance of up to +1650 °C and good thermal conductivity and insulation values, Ceramabond 670 is ideally suited for the manufacturing of sealing rings and melting furnace tile joints.

**Ceramabond 671** is an anorganic 1-K adhesive. This adhesive is characterized by its good vibration resistance and its resistance to corrosion and oxidation on metals. Thus, Ceramabond 671 provides solutions where the application areas of epoxy resins and silicones end. Temperature resistant up to +1760°C, this adhesive is suitable for end caps and flanges in parts exposed to high temperatures and for securing screws.

#### Technical Data

Characteristics	Ceramabond 670	Ceramabond 671
Main Components	Aluminium Oxide	Aluminium Oxide
Max. Temperature	+1650 °C	+1760 °C
Viscosity	25 – 50 g/cm-s	400 – 800 g/cm-s
Spec. Weight	1.80 - 1.95 g/cm <sup>3</sup>	2.05 – 2.15 g/cm <sup>3</sup>
CTE	7.7 cm/cm/°C x 10 <sup>-6</sup>	7.7 cm/cm/°C x 10 <sup>-6</sup>
Torque Strength	81349 N/mm <sup>2</sup>	77282 N/mm <sup>2</sup>
Dielectric Strength	5.59 KV/mm at RT	7.17 KV/mm at RT
Spec. Resistivity	10 <sup>8</sup> Ohm/cm at RT 10 <sup>4</sup> Ohm/cm at 540 °C	10 <sup>8</sup> Ohm/cm at RT 10 <sup>5</sup> Ohm/cm at 540 °C
Moisture Resistance	Excellent	Excellent
Alkali Resistance	Good	Excellent
Acid Resistance	Good	Good
Oxidation Resistance	Excellent	Excellent
Organic Solvent Resistance	Excellent	Excellent
Hardness	4 Moh's Scale	9 Moh's Scale

#### Handling

Smooth surfaces are difficult to bond, so they should either be etched, sandblasted or oxidized. 1-component adhesives tend to settle, so they should be stirred thoroughly before use. Ceramabond 670 and Ceramabond 671 can be applied by spatula, brush, syringe or automated dispensing equipment.

#### Hardening

- 1 – 4 Hours air cure at room temperature
- 2 Hours heat cure at 90 – 95 °C.

Oven drying and curing can be slightly extended depending on the size of the bonding surfaces and the material to be bonded. The curing time depends on the size of the bonding surfaces and the porosity of the material.

Alle hier gemachten Angaben dienen der Information und sind keine rechtsverbindlichen Zusagen. Sie entbinden den Anwender nicht von eigenen Vorversuchen.  
Wir haften nicht für Verarbeitungsergebnisse.

Rechnungsanschrift	Kunden-Center + Lieferanschrift	Telefon	Telefax	e-mail
T-E-Klebertechnik H.-P. Thielert Vahrenwalder Str. 131 30165 Hannover	Großer Kolonnenweg 3 30163 Hannover	Verkauf 0511/353982-0 Einkauf 0511/353982-11 Technik 0511/353982-31 Lohnarbeiten 0511/353982-12	0511-353982-40	infotek@t-e-klebertechnik.de
			UST-ID Nr.:	Internet
			DE 115640309	www.t-e-klebertechnik.de

Erfüllungsort ist Sitz des Lieferanten. Die Ware bleibt bis zur restlosen Bezahlung Eigentum des Lieferanten. Es gelten unsere Geschäftsbedingungen