



Rev.: 06/20

### Aremco-Bond 517

#### Description

Aremco-Bond 517 is a 2-K adhesive with high thermal conductivity and a thermal expansion coefficient close to that of copper/aluminium combined with excellent dielectric properties. This adhesive combines these properties with an easy curing process.

#### Usage

Controllable silicon cells, silicon rectifiers, energy transistors, integrated circuits, heat dissipation chassis and casting of heat sensors (PT 100).

The good adhesion to metals, glass, ceramics and many plastics allows for versatile uses in laboratories and research work.

#### Technical Data

Characteristics	Aremco-Bond 517
Operating Temperature	-20 °C bis +150 °C
Thermal Conductivity	0.002 gm cal/Sec/cm <sup>20</sup> °C/cm
CTE	15 x 10 <sup>-6</sup> per ° F
Spec. Resistance	10 <sup>16</sup> at RT
Dielectric Strength	750 Volts per mil 30 KV/mm
Lap shear strength	2000 psi = 140 kgp/cm <sup>2</sup>
Porosity	Not porous
Storage Time	6 Months at RT

#### Handling

- Thoroughly clean the surfaces of rust, grime, fat, oil.
- Smooth surfaces should be roughened up to achieve a high adhesive strength.
- Mix 8 parts A to 100 parts B homogeneously.  
A = activator B = base
- Apply a thin layer of mixed adhesive evenly to both sides to be bonded and join them.

Pressed out Aremco-Bond 517 can be wiped off with MEK or acetone.

Highest lap shear strengths are achieved with adhesive thicknesses from 0.025 mm to 0.127 mm.

#### Hardening

- 16 Hours air cure
- 5 Hours heat cure at 70 °C
- 45 Minutes heat cure at 90 °C
- 25 Minutes final cure at 190 °C

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.

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