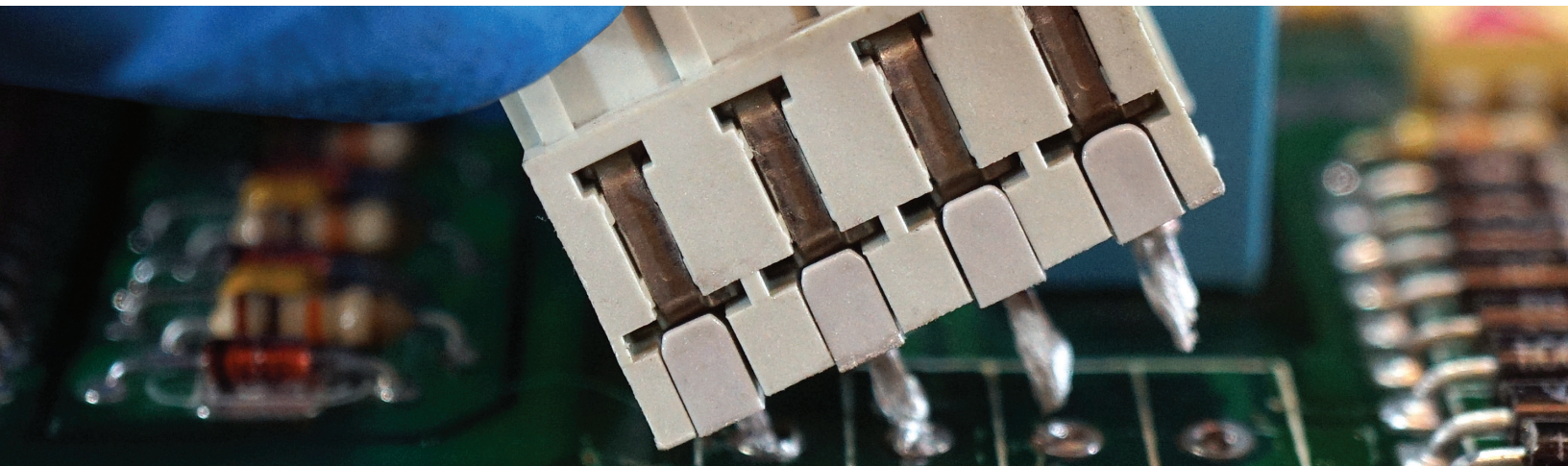


Electrically Conductive Adhesives — 2-Part Epoxy



Silver conductive epoxy for the assembly and repair of electronics

Features and Benefits:

- Creates permanent electrical connections
- 1:1 mix ratio
- Excellent electrical and thermal conductivity
- Room temperature storage and long shelf life

Applications:

- Making quick cold-solder repairs
- Creating jumpers, bridging, and gap filling
- Bonding heat sensitive components
- Bonding to conductive polymers
- Bonding to flexible circuits
- Bonding to gold, aluminum, brass, and bronze



We offer a choice of four Electrically Conductive Adhesives:

Choose a working time:

- 10 minutes: Good when room temperature cure is required, and quick fixes
- 4 hour: Good for assembly operations and ensuring all silver is efficiently used

And then a conductivity level:

- High: provides a cost-effective solution
- Extreme: provides the lowest resistance

To select the part number suited to your application:

Conductivity	Working Time	
	10 Minutes	4 Hours
High	8331	8331S
Extreme	8330	8330S

Electrically Conductive Adhesives Comparison Chart

Cat. Number	8330	8330S	8331	8331S
Uncured Working Properties				
Volume (A:B)	1:1	1:1	1:1	1:1
Viscosity	Paste	Paste	Paste	Paste
Working Time	10 min	4 h	10 min	4 h
Full Cure @22 °C [72 °F]	24 h	N/A	24 h	N/A
Full Cure @65 °C [149 °F]	20 min	2 h	15 min	2 h
Cured Properties				
Color	Silver Grey	Silver Grey	Silver Grey	Silver Grey
Density	3.3 g/mL	2.82 g/mL	2.44 g/mL	2.19 g/mL
Hardness	83D	73D	70D	73D
Outgassing (Total Mass Loss) @24 h	N/A	0.40%	6.27%	0.43%
Mechanical Properties				
Tensile Strength	6.3 N/mm ²	9.0 N/mm ²	15 N/mm ²	14 N/mm ²
Compressive Strength	21 N/mm ²	36 N/mm ²	39 N/mm ²	65 N/mm ²
Lap Shear Strength (Aluminum)	5.4 N/mm ²	2.6 N/mm ²	8 N/mm ²	4.8 N/mm ²
Electrical Properties				
Volume Resistivity	0.0010 Ω·cm	0.0007 Ω·cm	0.007 Ω·cm	0.0060 Ω·cm
Thermal Properties				
Thermal Conductivity @25 °C [77 °F]	1.63 W/(m·K)	1.75 W/(m·K)	0.90 W/(m·K)	0.85 W/(m·K)
Specific Heat @25 °C [77 °F]	0.56 J/(g·K)	0.79 J/(g·K)	N/A	0.90 J/(g·K)
Glass Transition Temperature (T _g)	51 °C [124 °F]	34 °C [93 °F]	50 °C [122 °F]	34 °C [93 °F]
CTE prior T _g	91 ppm/°C	97 ppm/°C	54 ppm/°C	78 ppm/°C
CTE after T _g	278 ppm/°C	208 ppm/°C	169 ppm/°C	158 ppm/°C

N/A = Not available

Available Packaging



6 mL Syringes
 8300-19G
 8300S-21G
 8331-14G
 8331S-15G



50 mL Kit
 8330-50ML
 8330S-50ML
 8331-50ML
 8331S-50ML



200 mL Kit
 8330-200ML
 8330S-200ML
 8331-200ML
 8331S-200ML