

AluBond AIW49P

Large Diameter Aluminum Wedge Bonding Wire

Excellent Thermal and Electrical Conductivity

AluBond AIW49P wire has excellent thermal and electrical conductivity and can be used on all heavy wire wedge bonding equipment. While normally supplied in an annealed state, Heraeus can also supply AluBond AIW49P aluminum wedge bonding wire to meet mechanical specifications best suited to your equipment and the looping requirements of your application. Various spool colors are available that enable customization of wire diameter and spool color. Larger traverse dimension on spool allows for 2X wire length resulting in higher UPH.

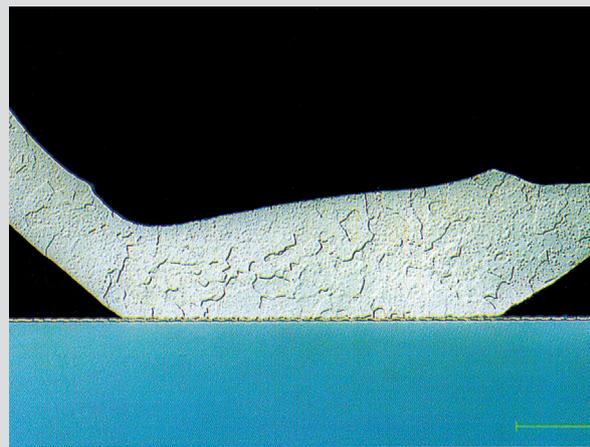


AluBond AIW49P Benefits

- Larger diameters suitable for power packages and discrete devices
- 3mil - 20mil thickness range prevents sag or deflection during molding
- Chemicals and metallurgical behavior compatible with aluminum metallization
- Bondable at temperature and energy levels low enough to avoid damage to sensitive devices
- Enhance corrosion resistance designed for non-hermetically sealed packages

Areas of Application

- Automotive components
- Power components
- Hybrid components
- Transistors / Thyristors
- Battery cell connecting



Recommended Technical Data of AluBond AIW49P

Diameter	Microns	125	150	200	250	300	380	500
	Mils	5	6	8	10	12	15	20
Elongation	(%)	> 5	> 5	> 5	> 10	> 10	> 10	> 10
Breaking Load	(g)	100 - 150	130 - 190	200 - 350	300 - 450	450 - 700	700 - 1100	1200 - 2000

For other diameters, please contact Heraeus Bonding Wires sales representative.

Wire Specification

Chemical Composition

Aluminum	99.99%
Total Impurities:	0.01%

Physical Properties

Density	2.70 g/cm ³
Melting Point	660°C / 1220°F
Electrical Resistivity @20°C	2.7 μW/cm
Thermal Conductivity @20°C	230 W/m.K
Electrical Conductivity @20°C	64% IACS



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