

AluBond AIW49P

Large Diameter Aluminum Wedge Bonding Wire

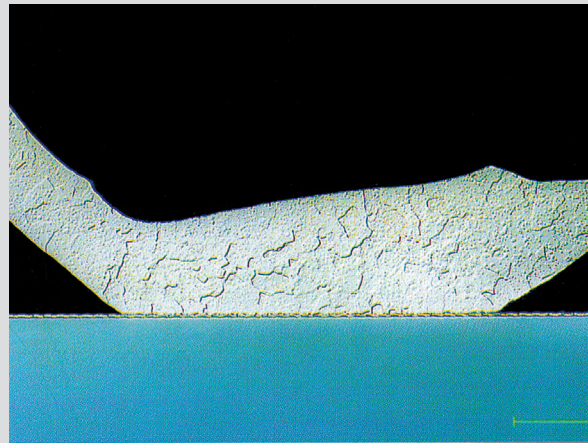
Excellent Thermal and Electrical Conductivity

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



Heraeus Electronics
Heraeus Deutschland GmbH & Co. KG
Heraeusstraße 12-14
63450 Hanau, Germany
www.heraeus-electronics.com

Americas
Phone +1 610 825 6050
electronics.americas@heraeus.com

China
Phone +86 21 3357 5457
electronics.china@heraeus.com

Asia Pacific
Phone +65 6571 7677
electronics.apac@heraeus.com

Europe, Middle East and Africa
Phone +49 6181 35 3069
+49 6181 35 3627
electronics.emea@heraeus.com