

TECHNICAL DATA SHEET



Product: Aluminum Silicon Bonding Wire

Mechanical Properties:

Diameter or Size (μm)	18	25	32	38	50	60
Tensile Strength (gm)	8 min. 4 – 6	20 16 – 18 14 – 16	28 min. 23 – 25 21 – 23 19 – 21	38 min, 33 – 38 26 – 33	65 min. 55 – 65 45 – 55	55 – 60
Elongation (%)	0.5 – 2.5 0.5 – 3.0	0.5 – 2.5 1 – 4 1 – 4	0.5 – 3.0 1 – 4 1 – 4 1 – 4	0.5 – 3.0 1 – 4 1 – 4	1 – 4 2 – 6 2 – 6	2 – 4

Note: The above is the general specification, actual will follow customer requirements.

Chemical Composition:

Item	Amount	Item	Amount
Aluminum (Al)	98.96% Minimum		
Silicon (Si)	1.0% Maximum		
Nickel (Ni)	<32ppm		
Boron (B)	<37ppm		

Total impurity elements: No single impurity shall exceed 0.0050% and the total of all detectable impurities shall not exceed 0.01%.

Physical Properties:

Property	Amount	Property	Amount
Density	2.7g/cm ³	Thermal Conductivity @20°C	195W/m K
Melting Point	620°C		
Electrical Resistivity @20°C	2.7e-009 ohms/m		
Electrical Resistivity @20°C	64% IACS		

Shelf life vacuum packed: 1 year (Stored @ 22°C ± 1°C or 73°F ± 3°F, 65% Rh Min.)

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