

Technical Data Sheet



Product : Aluminum Silicon Bonding Wire

Mechanical Properties:

Diameter or Size (um)	18	25	30	32	38	50	60
Tensile Strength (gm)	8 min. 4 - 6	20 16 - 18 14 - 16	21 - 23	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	1 - 3%	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, the actual will follow customer requirements.

Chemical Composition:

Item	Amount	Item	Amount
Aluminum	98.96% minimum		
Silicon (Si)	1.0% maximum		
Nickel (Ni)	<50ppm		
Boron (B)	<50ppm		

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

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