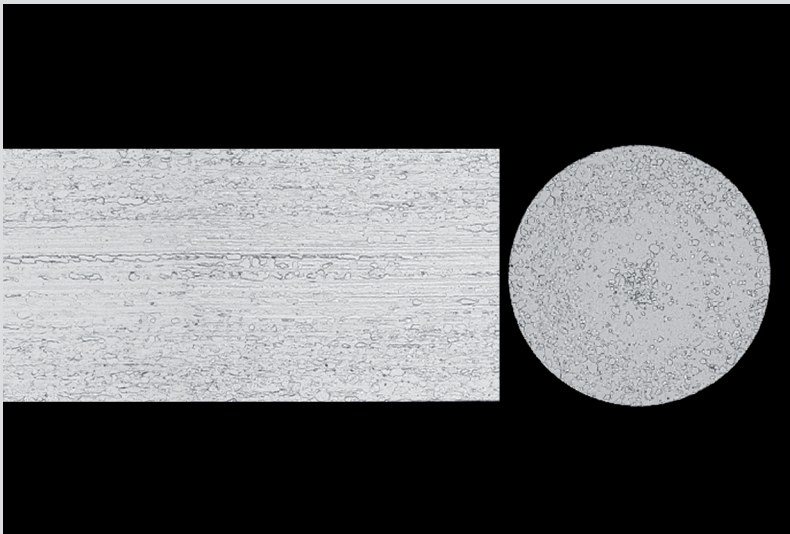


Al-H11 CR

Aluminum Bonding Wire for Extended Corrosion Resistance



Al-H11 CR Benefits

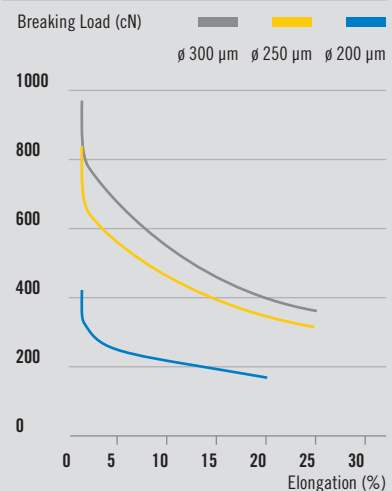
- Extended corrosion resistance
- Defined softness
- Good bending fatigue properties
- Excellent loop stability
- Outstanding bonding properties
- Modified softening behavior at increased temperatures
- Problem-free bonding behavior

Al-H11 CR wires consist of high purity aluminum with selected addition elements homogeneously distributed in defined concentrations. The corrosion resistant Al-H11 CR wire fulfils the increasing requirements made on the reliability of bonded connections in automobile and power electronics.

Areas of application

- Automotive components
- Power components
- Hybrid components
- Transistors / thyristors

Breaking Load vs. Elongation



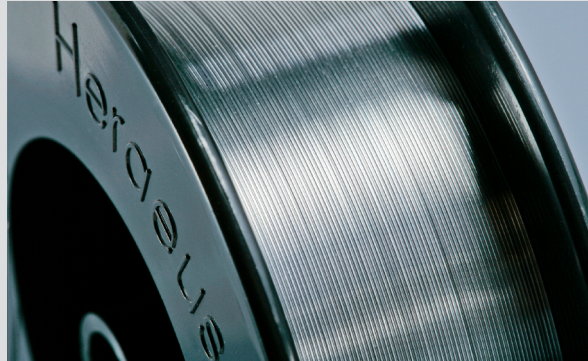
Recommended Technical Data of Al-H11 CR

Diameter	Microns (µm)	125	150	175	200	250	300	375	400	450	500
	Mils	5	6	7	8	10	12	15	16	18	20
Elongation	%	> 1	> 1	> 1	> 1	> 5	> 5	> 5	> 5	> 5	> 5
Breaking Load	cN	75 – 130	110 – 190	150 – 250	200 – 330	300 – 520	480 – 760	600 – 900	680 – 980	800 – 1200	1000 – 1400

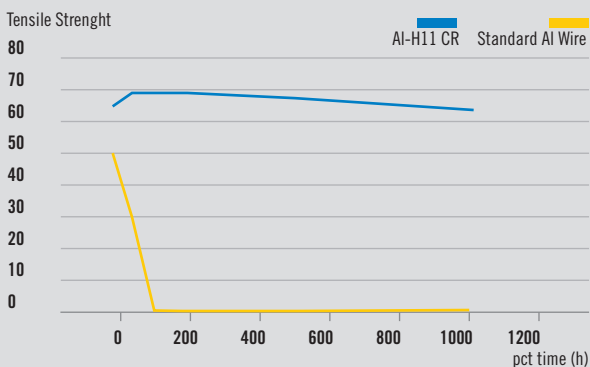
For other diameters, please contact Heraeus Bonding Wires sales representative.

Characteristics of Al-H11 CR

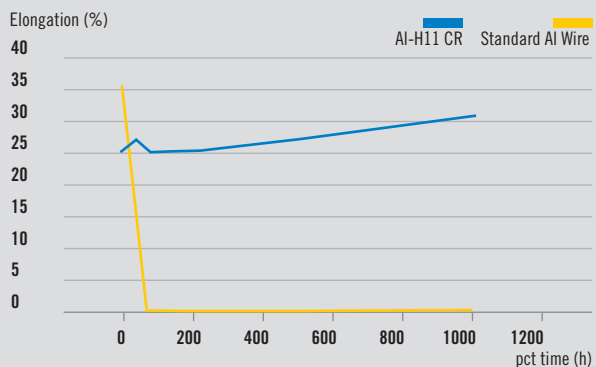
Melting Point	°C	660
Modulus of rigidity	kN / mm ²	27
Thermal conductivity at 20°C	W / m-K	230
Linear expansion coefficient (20 – 30°C)	10 ⁻⁶ K ⁻¹	25.3
Electrical Resistivity at 20°C	μΩm-cm	2.8
Temperature coefficient of electrical resistance (0 – 100°C)	10 ⁻³ K ⁻¹	4.14
Relative electrical conductivity (IACS) at 20°C	%	61.6
Meter resistance at ø 25 μm (20°C)	Ω / m	57.1
Thermal emf against Cu (0°/100°C)	mV	-0.35



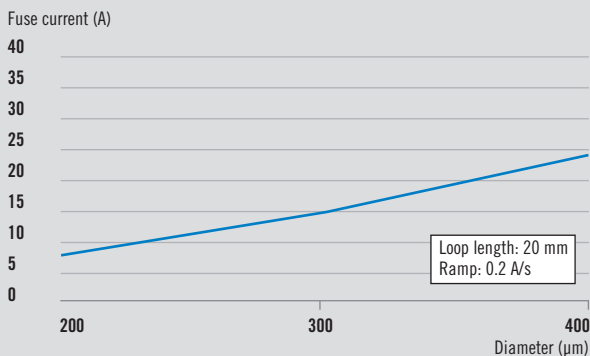
Corrosion Resistance Test



Pressure Cooker Test



Fuse Current of Al-H11 CR



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