



PREMIUM QUALITY ALUMINUM WIRES

# Product Specification

## RD-4047

### Conformances

AWS A5.10      ER 4047  
 EN ISO 18273    S AI 4047 (AISI12)  
 JIS Z3232      A 4047

### Key Features

Silicon-Aluminium alloy for welding and brazing  
 Low melting point and narrow freezing range  
 Increased fluidity and reduced shrinkage and hot cracking  
 Substitute for 4043 (increased silicon for higher fillet weld shear strength)  
 Excellent wetting action and corrosion resistance  
 Produces bright and almost smut-free welds  
 Non-heat treatable

### Available

MIG wire (1.2 mm)  
 TIG wire (All sizes)

### Shielding Gas

Argon (100%),  
 Mixed (Argon+Helium)

### Typical Application

Application with elevated temperatures  
 Thin sections where its higher fluidity & lower shrinkage rate are important for distortion control  
 Joint sealing of pressurized fluids & gases  
 Radiators & Air-conditioning components  
 General repair & maintenance

### Weldable Base Materials

Base 6XXX alloys, aluminum alloys 1060, 1350, 3003, 3004, 3005, 5005, 5053, 6053, 6061, 6951, 7005.  
 Cast alloys (Illustrative, not-exhaustive list)

### Chemical Composition (%)

Si	Fe	Cu	Mn	Mg	Zn	Ti	Be
11.00	Max	Max	Max	Max	Max	Max	Max
13.00	0.60	0.30	0.15	0.10	0.20	0.15	0.0003

### Mechanical Properties

Yield Strength (Rp <sub>0.2</sub> )	Tensile Strength (Rm)	Elongation
≥ 60 N/mm <sup>2</sup>	≥ 130 N/mm <sup>2</sup>	≥ 5%