

BERALWELD® M4047

berAlweld® M4047 is an AlSi filler metal for MIG and TIG welding in various applications
Also available as spray wire in dimensions from 1.60 to 4.00 mm

Features:

- High Si content helps to reduce hot cracks and generate higher shear strength in fillet welding
- Even higher fluidity compared to **berAlweld® 4043**
- Bright and almost smut free welding
- Not recommended for anodizing

Base Materials:

- Cast alloys with Si content of max. 12%

Applications:

- Automotive parts
- Heat exchangers
- Body panels
- Brazing of aluminium sheets, profiles and castings

Standards:

- DIN EN ISO 18273 (S Al 4047 (AlSi12))
- DIN 1732 (3.2285)
- AWS A5.10 (ER 4047)

Shielding gas (EN ISO 14175:)

- 100% Ar (I1)
- Ar / He mixture (I3)

Standardization and composition

EN ISO 18273	S Al 4047 (AlSi12)
DIN 1732	3.2285
AWS A5.10	ER 4047
Si	11.0-13.0
Fe	<0.8
Cu	<0.30
Mn	<0.15
Mg	<0.10
Cr	-
Zn	≥ 0.20
Zr	-
Ti	-
Al	Balance
Be	<0.0003
Others	< 0.15

Physical properties

Density (g/cm³)	2.68
Melting range (°C)	574 - 638
Yield strength (MPa)	≥ 275
Tensile strength (MPa)	≥ 130
Elongation (%)	≥ 18

Delivery options

Make-up	Weight/Length	Dimension
S100	0.5 kg	0.80 / 1.00 / 1.20 /1.60mm
S200	2.0 kg	0.80 / 1.00 / 1.20 /1.60mm
S300	5.0 - 7.0 kg	0.80 / 1.00 / 1.20 /1.600mm
BS300	5.0 - 7.0 kg	0.80 / 1.00 / 1.20 /1.60mm
B300	5.0 - 7.0 kg	0.80 / 1.00 / 1.20 /1.60mm
bedrabox	80-150kg	1.00 / 1.20 / 1.60mm
Drum	60.0 - 140.0 kg	1.00 / 1.20 /1.60mm
Rods	5.0 - 10.0 kg	1.60 / 2.40 / 3.20 / 4.00 / 6.00mm x 1000mm