

berAlweld® M5554 is an AlMg based based filler metal for MIG and TIG welding of AlMg based alloys

Features:

- High corrosion resistance
- Suitable for sustained elevated temperature service (65-160°C)

Typical Base Materials:

- AlMg and AlMgMn alloys with Mg content of up to 3% e.g. 5454

Typical applications:

- Chemical storage tanks
- Automotive wheels
- Trailers
- Tail tank cars

Standards:

- DIN EN ISO 18273 (S Al 5554 (AlMg2,7Mn))
- DIN 1732 (3.3538)
- AWS A5.10 (ER 5554)

Shielding gas (EN ISO 14175:)

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

Standardization and composition

EN ISO 18273	S Al 5554 (AlMg2.7Mn)
DIN 1723	3.3538
AWS A5.10	ER/R 5183
Si	< 0.25
Fe	< 0.40
Cu	< 0.10
Mn	0.50-1.0
Mg	2.4-3.0
Cr	0.05-0.25
Zn	< 0.25
Zr	-
Ti	0.05-0.20
Al	Balance
Be	< 0.0003
Others	< 0.15

Physical properties

Density (g/cm³)	2.68
Melting range (°C)	602-648
Yield strength (MPa)	≥ 100
Tensile strength (MPa)	≥ 215
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 / 1.60mm
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