

Solid Wire Electrode for MIG/MAG Welding

BA-MIG AlSi5

Classification: ISO 18273: **S Al 4043 (AlSi5)**
SFA-5.10: **ER4043**

Main Application:

BA-MIG AlSi5 is a solid wire electrode for GMAW with 5% Si. Suitable for aluminium and aluminium alloys having less than 7 % Si, cast aluminium alloys having <7 % Si. Excellent welding characteristics and good mechanical properties.

Typical analysis and chemical composition acc. to ISO 18273 and AWS A5.10:

(Weight Percent)

Wire electrode	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
Typical analysis BA-MIG AlSi5	5.2	0.19	0.1	0.02	0.012	0.001	0.021	0.015	Rem
S Al 4043 acc. to ISO 18273	4.5-6.0	0.8	0.3	0.05	0.05	-	0.1	0.2	Rem
ER4043 acc. to AWS A5.10	4.5-6.0	0.8	0.3	0.05	0.05	-	0.1	0.2	Rem

All - Weld Metal Mechanical Properties / Welding Data:

Heat Treatment: As Welded
Yield Strength Re, N/mm² (ksi): 40 (6)
Tensile Strength Rm, N/mm² (ksi): > 120 (17)
Elongation A5 [%]: > 8
Impact Energy ISO-V, J (ft lbs):
Current/polarity: DC +
Shielding Gas: ISO 14175: I1

Base Materials:

AlSi5, AlMgSi0.5, AlMgSi0.8, AlMgSi1, G-AlSi5

Package Forms:

Spools BS300/7 kg, D200/2 kg, and drums as standard package forms for GMAW wire electrodes.

Diameter:

0,8 – 1,6 mm. Sizes and tolerances acc. to ISO 544 and AWS A5.10.

Wire Electrode Surface:

Smooth finish free from surface defects and foreign matter.