

Solid Wire Rod for TIG Welding

BA-TIG AISi5

Classification: ISO 18273: **S Al 4043 (AISi5)**
SFA-5.10: **ER4043**

Main Application:

BA-TIG AISi5 is a solid wire rod for GTAW 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 rod	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
Typical analysis BA-TIG AISi5	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/mm ² (ksi)	40 (6)
Tensile Strength Rm, N/mm ² (ksi)	> 120 (17)
Elongation A5 [%]	> 8
Impact Energy ISO-V, J (ft lbs)	
Current/polarity	AC
Shielding Gas	ISO 14175: I1, I2, I3

Base Materials:

AISi5, AlMgSi0.5, AlMgSi0.8, AlMgSi1, G-AISi5

Package Forms:

2,5 kg carton boxes as standard package form for GTAW wire rods.

Diameter:

1,6 – 4,0 mm. Sizes and tolerances acc. to ISO 544 and AWS A5.10.

Wire Rod Surface:

Smooth finish free from surface defects and foreign matter.