

AS MIG AISi5 / AS TIG AISi5



MIG Wire and TIG Rod for Welding of Aluminium Alloys

Classification

AWS A5.10 : ER4043
ISO 18273 : S Al 4043A / AISi5(Al)

General Description

Solid wire and rod for welding of aluminium-silicium alloys.

Chemical Composition (w%), Typical, Wire

Si	Mn	Fe	Cu	Zn	Ti	Al
4.5 - 5.5	< 0.05	< 0.50	< 0.30	< 0.10	< 0.01	kalan

Mechanical Properties, Typical, All Weld Metal

Yield Strength	: 100 N/mm ²	Melting Range	: 575 - 625 °C
Tensile Strength	: 160 N/mm ²	Density	: 2.68 gr/cm ³
Elongation (L=5d)	: 15 %		
Impact ISO-V	: 20 J (+20°C)		

Shielding Gases (acc. ISO 14175 and EN 439)

MIG : I1 - Ar (%100)
TIG : I1 - Ar (%100)

Materials to be Welded

	DIN 1725-1	DIN 1725-2	Mat. Nr.	Alloy Nr.
Aluminium Wrought Alloys	AlMgSi 0.5		3.3206	6060
	AlMgSi 0.7		3.3210	6005A
	AlMgSi 0.8		3.2316	6181
Aluminium Cast Alloys		G-AISI 5		443.0

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	4.0	Spool/Tube Weight
MIG Wire	-	X	X	-	-	-	-	-	7 kg
TIG Rod	-	-	-	-	X	X	-	X	5 kg