

ER4043



Aluminum Alloy Wire

(AWS ER4043)

A silicon alloyed aluminum welding wire for heat-treatable base alloys and more specifically, the 6XXX series alloys. It can also be used for joining wrought to cast materials and is less sensitive to weld cracking. Silicon in the wire increases puddle fluidity, resulting in excellent operator appeal.

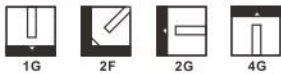
Classification

AWS A5.10	ER4043
EN ISO 18273	Al4043 (AlSi5)

Physical Properties

Yield Strength	40MPa/mm ²
Tensile Strength	120MPa/mm ²
Elongation	8%
Test Temperature	20°C

Welding Positions



Shielding Gas

Argon
Helium
Argon/Helium-mixtures

Polarity

MIG	Direct current (DC)
TIG	Alternating current (AC)

Chemical Composition

	Si%	Fe%	Cu%	Mn%	Mg%	Cr%	Ni%	Zn%	Ti%	Al%
AWS Requirements	4.5-6.0	0.8	0.30	0.05	0.05	—	—	0.10	0.20	Rest
Typical Results	4.89	0.13	0.005	0.01	0.01	—	—	0.04	0.14	Rest

Diameter

	0.8mm	0.9mm	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
MIG Wire	...	...	...	...				
TIG Rod				...	...	...	...	...

Packaging

	D100	D200	D300	K300	KS300	Box
MIG Wire	0.5Kgs	2Kgs	7Kgs	7Kgs	7Kgs	
TIG Rod						5Kgs or 10Kgs

Aluminum Alloy Wire

(AWS ER4047)

This alloy is particularly used to prevent solidification cracks in connection with high dilution and clamp conditions. Anodizing gives dark gray colours and is not recommended. The weld pool is very fluid. Consider the technological application reference.

Classification

AWS A5.10	ER4047
EN ISO 18273	Al4047 (AlSi12(A))

Physical Properties

Yield Strength	60MPa/mm ²
Tensile Strength	130MPa/mm ²
Elongation	5%
Test Temperature	20°C

Chemical Composition

	Si%	Fe%	Cu%	Mn%	Mg%	Cr%	Ni%	Zn%	Ti%	Al%
AWS Requirements	11.0-13.0	0.8	0.30	0.15	0.10	—	—	0.20	—	Rest
Typical Results	12.06	0.13	0.005	0.05	0.05	—	—	0.04	—	Rest

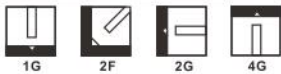
Diameter

	0.8mm	0.9mm	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
MIG Wire	...	...	...	...				
TIG Rod				...	...	...	...	...

Packaging

	D100	D200	D300	K300	KS300	Box
MIG Wire	0.5Kgs	2Kgs	7Kgs	7Kgs	7Kgs	
TIG Rod						5Kgs or 10Kgs

Welding Positions



Shielding Gas

Argon
Helium
Argon/Helium-mixtures

Polarity

MIG Direct current (DC)
TIG Alternating current (AC)

Aluminum Alloy Wire

(AWS ER5356)

The weld metal is sea water resistant. Suitable for anodizing when matching colours are required. Consider the technological application reference.

Classification

AWS A5.10	ER5356
EN ISO 18273	Al5356 (AlMg5Cr)

Physical Properties

Yield Strength	110MPa/mm ²
Tensile Strength	240MPa/mm ²
Elongation	17%
Test Temperature	20°C

Welding Positions



Shielding Gas

Argon
Helium
Argon/Helium-mixtures

Polarity

MIG Direct current (DC)
TIG Alternating current (AC)

Chemical Composition

	Si%	Fe%	Cu%	Mn%	Mg%	Cr%	Ni%	Zn%	Ti%	Al%
AWS Requirements	0.25	0.40	0.10	0.05-0.20	4.5-5.5	0.05-0.20	—	0.10	0.06-0.20	Rest
Typical Results	0.14	0.13	0.005	0.13	5.15	0.11	—	0.009	0.11	Rest

Diameter

	0.8mm	0.9mm	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
MIG Wire	...	...	...	...	...	...	...	...
TIG Rod				...	...	...	...	...

Packaging

	D100	D200	D300	K300	KS300	Box
MIG Wire	0.5Kgs	2Kgs	7Kgs	7Kgs	7Kgs	
TIG Rod						5Kgs or 10Kgs