

Wire type:

TIG Solid wire

Current:



Welding positions:



Shielding gas:

I1 = Pure Ar

AL Si 5 is aluminium wire for TIG welding, repairing and surfacing forged and cast aluminium-silicon alloys and joining dissimilar aluminium alloys with max. 7%Si content. The easy flowing characteristics make the wire suitable for welding all aluminium castings (except AlMg castings). To be used in combination with tungsten electrodes type WP.

Base materials to be welded:

- Aluminium-MgSi alloys
- Aluminium-Mg alloys up to 2,5% Mg
- Aluminium-MnCu alloys
- Aluminium-Si cast alloys
- Joining dissimilar aluminium alloys

Applications:

- General fabrication & construction (aluminium base metals)
- Shipbuilding & Offshore
- Repair & Maintenance

Equivalent product in alternative welding process:

SMAW	GMAW	FCAW	GTAW	SAW	Gas welding / brazing
Aluminil Si 5	AL Si 5	-	-	-	Fluxcored AL Si5

Chemical composition, wt.% weld metal – typical:

C	Mn	Si	S	P	Cr	Mg	Fe	Cu	Ti	Zn	Al
	0,30	5,0									Bal.

Mechanical properties, weld metal – typical:

Condition	0,2% Yield strength MPa	Tensile strength MPa	Elongation Lo=5d - %	Physical properties	
As welded	≥ 70	≥ 130	≥ 16	Melting range 573-625°C	Density ~2680 kg/m ³

Note: electrical conductivity 15-19 Sm/mm²

Packaging data:

Dia. mm.	Length mm.	Weight / package kg.
1,6	1000	5
2,0	1000	5
2,4	1000	5
3,2	1000	5