



# ER 1070

Aluminium WIRE/GTAW



## Standards

EN/ISO-Standard - 18273

EN/ISO-Classification - S Al 1070 (Al99.7)

AWS-Standard - A5.10

AWS-Classification - ER 1070

## Features and Applications

- High purity aluminium wire for welding pure aluminium.
- Highly resistant to weathering and chemical attack.
- Good resistance to atmospheric conditions in a wide range of corrosive media, particular alkaline environments.
- ER 1070 wire offers excellent weldability when properly cleaned prior to welding.
- Heavy parts and thicker plates should be pre-heated to (150°C) prior to welding.
- Typically used on applications for chemistry, electronics, construction and food industries etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



## Approvals

CE, UKCA

## Typical Base Materials

Al99.0 Al.99.5 Al.99.7 E-Al., 99.5, 3.0205, 3.0255, 3.0275, 3.0257, EN AW 1200, EN AW 1050A, EN AW 1070A, EN AW 1350\*

\* Illustrative, not exhaustive list

## Welding Positions

EN ISO 6947 - PA, PB, PC, PD, PE, PF, PG

## Shielding Gases

EN ISO 14175 - TIG: I1, I3

## Polarity

AC

## Chemical Composition % (Typical)

Si %	Fe %	Cu %	Mn %	Mg %	Zn %	V %	Ti %	Be%	Al %
0.0391	0.0414	0.0013	0.0006	0.0007	0.0037	0.0045	0.0055	0.003	99.8900

## Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6011100390	1.60	1000	2.5	Cardboard Tube
6011100392	2.40	1000	2.5	Cardboard Tube
6011100394	3.20	1000	2.5	Cardboard Tube

Other diameters available on request

## Mechanical Properties

Tensile Strength (N/mm <sup>2</sup> )	Yield Strength (N/mm <sup>2</sup> )	Elongation (%)
≥65	≥20	≥35

Mechanical properties are approximate and may vary based on the heat, shielding gas, welding parameters and other factors.