

# TECHNICAL DATA SHEET

## ALUMINUM ALLOY FILLER METAL



# 1070

### Comparable specifications

**ASME SFA- 5.10:** ER1070  
**EN ISO 18273:** S Al 1070 (Al99.7)  
**Werkstoff Nr.:** 3.0259

### Description and applications\*

\* *Illustrative, not-exhaustive list*

High purity aluminium wires and rods for welding pure aluminium. Highly resistant to weathering and to chemical attack, it has a good resistance to atmosphere and to a wide range of corrosive media, in particular in alkaline environment.

Mainly recommended for:  
metalizing and thermal spray application;  
chemical processing plant applications where strength is not critical;  
applications in electronics, construction and food industries.

### Weldable base materials\*

\* *Illustrative, not-exhaustive list*

Al99.8, Al99.7, Al99.5.

### All-weld metal mech. properties\*

\* *For reference only values*

**Tensile strength (Rm):**  $\geq 65$  N/mm<sup>2</sup>      **Yield Strength (Rp<sub>1.0</sub>):**  $\geq 20$  N/mm<sup>2</sup>  
**Elongation:**  $\geq 35\%$

### Chemical composition\*

\* *For reference only values*

Si	Fe	Cu	Mn	Mg	Zn	V	Ti	Be	Al
max	max	max	max	max	max	max	max	max	99.70
0.20	0.25	0.03	0.03	0.03	0.04	0.05	0.03	0.0003	min

### Standard packaging data\*

Welding process	Product type	Ø mm (inches)	Packing type	Weight kg (lbs)	Length mm (inches)
GMAW **	filler wire	0.80 - 1.20 (0.030 - 0.047)	spools BS300 / D300	7 (33)	n.a.
GTAW **	filler rod	1.60 - 4.00 (1/16 - 5/32)	cardboard boxes / tubes	5 (11)	1000 (39.4)


\* *Other sizes and packing types are available upon request*

\*\* *GMAW: gas metal arc welding; GTAW: gas tungsten arc welding*

### Marking

Each filler rod for GTAW welding is durably marked with an identification traceable to the unique product type. Welding filler materials wound on spools or in coils are durably marked on the coil or spool with an identification traceable to the unique product type.

The outside of each unit package is suitably labelled with at minimum the following data: grade, diameter, heat, lot no., classifications.

 marking type-testing performed and available.

Customized labels are available upon request.

### Lot classification

All our productions fulfil the **Class S3** requirements acc. to EN ISO 14344.