

A1080

Comparable specifications

ASME SFA- 5.10: ER1080A
EN ISO 18273: S Al 1080A (Al99.8(A))
Werkstoff Nr.: 3.0286

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.

This grade may be used for applications in which a higher purity degree of deposit material is needed, such as:

- metalizing and thermal spray applications, in particular for food using;
- chemical processing plant applications where strength is not critical and/or requiring high ductility;
- panelling applications.

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): $\geq 60 \text{ N/mm}^2$ Yield Strength (Rp_{1.0}): $\geq 22 \text{ N/mm}^2$
Elongation: $\geq 40\%$

Chemical composition*

* For reference only values

Si	Fe	Cu	Mn	Mg	Zn	Ga	Ti	Be
max	max	max	max	max	max	max	max	max
0.15	0.15	0.03	0.02	0.02	0.06	0.03	0.02	0.0003

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.

Customized labels are available upon request.

Lot classification

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