

4043

Comparable specifications

ASME SFA- 5.10: ER4043
EN ISO 18273: S Al 4043 (AlSi5)
Werkstoff Nr.: 3.2245

Description and applications*

* *Illustrative, not-exhaustive list*

This silicon-aluminium filler material is one of the oldest and most widely used welding alloys. It can be classified as a general purpose type filler alloy.

Silicon with this alloy gives improved wetting action yielding a less crack sensitive bright weld bead.

Excellent when aesthetics are of importance. Not recommended for material to be anodized.

This grade may be used for:

applications in about all the industrial manufacturing sectors, such as the automotive industry, the production of mobile equipments, the ship building sector, etc.

Weldable base materials*

* *Illustrative, not-exhaustive list*

Heat-treatable base alloys, 6XXX series aluminium types (e.g. 6052, 6053).

All-weld metal mech. properties*

* *For reference only values*

Tensile strength (Rm): ≥ 120 N/mm² **Yield Strength (Rp0.2):** ≥ 40 N/mm²
Elongation: $\geq 8\%$

Chemical composition*

* *For reference only values*

Si	Fe	Cu	Mn	Mg	Zn	Ti	Be
4.50	max	max	max	max	max	max	max
6.00	0.60	0.30	0.05	0.05	0.10	0.15	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.

 marking type-testing performed and available.

Customized labels are available upon request.

Type approvals

ABS (GMAW) **BV** (GMAW) **CWB** (GMAW/GTAW) **DNV GL** (GMAW)
LR (GMAW) **RINA** (GMAW) **TÜV** (GMAW)

Lot classification

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