

5556

Comparable specifications

ASME SFA- 5.10: ER5556 / ER5556A
EN ISO 18273: S Al 5556 (AlMg5Mn1Ti) / Al5556A (AlMg5Mn)
Werkstoff Nr.: ~ 3.3548

Description and applications*

* *Illustrative, not-exhaustive list*

Aluminum alloy filler metal mainly used to weld aluminium magnesium base metal alloys with a maximum of 5.3% Mg.

It provides the highest as-welded strengths in fillet welds, offering as well characteristics of corrosion resistance, toughness, workability and weldability.

Not recommended for elevated temperature service applications. Non-heat treatable.

This grade may be used for:

- military industry;
- general constructions and structural industry;
- pressure vessels;
- storage tanks.

Weldable base materials*

* *Illustrative, not-exhaustive list*

5xxx alloys, such as AlMg4.5Mn, AlMg5, AlMg5Mn, AlMg2.7Mn, AlMgSi1.

All-weld metal mech. properties*

* *For reference only values*

Tensile strength (Rm): ≥ 275 N/mm² **Yield Strength (Rp_{0.2}):** ≥ 126 N/mm²
Elongation: ≥ 17% **Charpy-V Impact (R.T.):** ≥ 16 J

Chemical composition*

* *For reference only values*

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Be
max	max	max	0.60	5.00	0.05	max	0.05	max
0.25	0.40	0.10	1.00	5.50	0.25	0.20	0.20	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) **KR** (GMAW)

Lot classification

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