

# 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):**  $\geq 275 \text{ N/mm}^2$   
**Elongation:**  $\geq 17\%$

**Yield Strength (Rp<sub>0.2</sub>):**  $\geq 126 \text{ N/mm}^2$   
**Charpy-V Impact (R.T.):**  $\geq 16 \text{ J}$

### 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

### Lot classification

Class S3 acc. to EN ISO 14344.

