

Aluminium wire

Classification

| | |
|-----------|--------------------|
| AWS A5.10 | :ER4043 |
| ISO 18273 | :S Al 4043 (AlSi5) |

General Description

Solid wire for welding of aluminium-silicium alloys

Excellent feedability and very consistent welding performance.

Tight and stable arc.

Also available in 120 kg WUTPACK®Mini, that increases productivity by reducing time to change spools.

Shielding gas (acc. EN)

| | | |
|------|----|---------------------------|
| GTAW | I1 | Inert gas Ar 100% |
| GMAW | I1 | Inert gas Ar 100% |
| | I3 | Inert gas Ar + > 0-95% He |

Approvals

| | |
|------|-----|
| | TÜV |
| GTAW | + |
| GMAW | + |

Chemical composition (w%), typical, all weld metal

| | | | | | | | |
|------|------|-----|-------|-----|-------|------|-------|
| Al | Mn | Si | Ti | Fe | Zn | Cu | Mg |
| rest | 0.01 | 4.7 | 0.001 | 0.3 | 0.002 | 0.01 | 0.004 |

Mechanical properties, all weld metal

| | Process | Shielding gas | Condition | 0.2% Yield Strength (N/mm ²) | Tensile Strength (N/mm ²) | Elongation (%) | Impact (ISO), J | | Hardness HB |
|----------------|---------|---------------|-----------|--|---------------------------------------|----------------|-----------------|--------|-------------|
| | | | | | | | +20 °C | -60 °C | |
| Typical values | GTAW | I1 | AW | 100 | 160 | 15 | 20 | 20 | |
| after welding | GMAW | I1 | AW | 100 | 160 | 15 | 20 | 20 | |

Physical properties

Melting range 573-625°C

Density approximately 2680 kg/m³

Materials to be welded

| Material | Code | Type | W.Nr. | Int.Reg.Nr. | Int.Cast.Nr. |
|-----------------------|------------|--------------|--------|-------------|--------------|
| Aluminium cast alloys | DIN 1725-1 | Al Mg Si 0.5 | 3.3206 | 6060 | |
| | | Al Mg Si 0.7 | 3.3210 | 6005A | |
| | | Al Mg Si 0.8 | 3.2316 | 6181 | |
| | DIN 1725-2 | G-Al Si 5 | | | 443.0 |

Packaging, available sizes and identification

| Process | Unit: | Sizes, mm | | | | | | | |
|---------|---------------------------|-----------|-----|-----|-----|-----|-----|-----|-----|
| | | 0.8 | 1.0 | 1.2 | 1.6 | 2.0 | 2.4 | 3.2 | 4.0 |
| GTAW | 2.5 and 5 kg tube | | | | X | X | X | X | X |
| GMAW | 0.5 kg plastic spool S100 | X | X | X | X | | | | |
| | 7.6 kg plastic spool S300 | X | X | X | X | | | | |
| | 7.0 kg basket spool BS300 | X | X | X | X | | | | |
| | 120 kg WUTPACK®Mini | | | | X | | | | |

Other sizes and packaging on request

Identification

Imprint: Reval®4043

Tip colour:

Reval®4043 : rev.EN 20