

Speedmet Ltd.

A Welding Alloys Group company



DATA SHEET SPEEDMET® WIRE FOR WELDING

Grade: ER4043 (AlSi5)

Chemical Analysis (wt%)

Values are a maximum unless a range is shown.

Si	Fe	Cu	Mn	Mg	Cr
4.5 – 6.0	0.6	0.30	0.05	0.05	
Zn	Ti	Be	Others Each	Total	Al
0.10	0.15	0.0003	0.05	0.15	Rem.

Specification

EN ISO 18273:2015, AWS A5.10/A5.10M:2021

Typical Physical Properties

Density: 2.68 g/cm³
Melting Range: 573 – 625°C
Thermal Conductivity: ~150 W/m-K, ~29 %IACS
Electrical Resistivity: 41x10⁻⁷ Ω cm

Welding Characteristics

Parent Metals: AlMgSi (6xxx series) alloys e.g. 6063, 6082
Cast alloys of aluminium-silicon type
Welding Process: MIG or TIG
Anodising: Poor
Corrosion Resistance: Good, but can depend on parent alloy
Conductivity:

Typical Mechanical Properties of Weld Metal

Tensile Strength: 140Mpa
0.2% Proof Stress: 40Mpa
Elongation: 8%

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