

Speedmet Ltd.

A Welding Alloys Group company



DATA SHEET SPEEDMET® WIRE FOR WELDING

Grade: ER5356 (AlMg5Cr(A))

Chemical Analysis (wt%)

Values are a maximum unless a range is shown.

Si	Fe	Cu	Mn	Mg	Cr
0.25	0.40	0.10	0.05 – 0.20	4.5 – 5.5	0.05 – 0.20
Zn	Ti	Be	Others Each	Total	Al
0.10	0.06 – 0.20	0.0003	0.05	0.15	Rem.

Specifications

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

Typical Physical Properties

Density: 2.64 g/cm³
Melting Range: 575 – 633°C
Thermal Conductivity: ~100W/m⁰K, ~29% IACS
Electrical Resistivity: ~6x10⁻⁶ Ω cm

Welding Characteristics

Parent Metals: AlMg alloys with Mg < 4%, AlMgSi alloys when anodised. Cast alloys of AlSi – Mg type
In practice the most versatile and universally used filler material.
Welding Process: MIG or TIG
Anodising: Excellent
Corrosion Resistance: Excellent – very good in marine atmosphere
Conductivity: Poor

Mechanical Properties of Weld Metal

Tensile Strength: >250Mpa
0.2% Proof Stress: >120Mpa
Elongation: 17% (typical)

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