

SPECIFICATIONS

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| EN | 573-3 |
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Surface: 6-sides sawn. Roughness depth Ra ca. 10µm

V-CAST AlMg3 (EN AW-5754) is a non-ageing wrought alloy with following chemical composition (weight-%, according to EN 573-3). Typical applications are decoratively anodized parts.

CHEMICAL COMPOSITION

| Element | % Present |
|----------------|-----------|
| Magnesium (Mg) | 2.6 - 3.6 |
| Manganese (Mn) | 0.5 max |
| Silicon (Si) | 0.4 max |
| Iron (Fe) | 0.4 max |
| Chromium (Cr) | 0.3 max |
| Zinc (Zn) | 0.2 max |
| Titanium (Ti) | 0.15 max |
| Copper (Cu) | 0.1 max |

GENERIC PHYSICAL PROPERTIES

| Property | Value |
|-------------------------|-------------------------|
| Density | 2.66 g/cm ³ |
| Modulus of Elasticity | 70 GPa |
| Electrical Conductivity | 17 - 23 MS/m |
| Thermal Expansion | 24 x10 ⁻⁶ /K |
| Thermal Conductivity | 140 - 160 W/m.K |
| Heat Capacity | 900 J/kgK |

MECHANICAL PROPERTIES

| Property | Value |
|------------------|-----------|
| Tensile Strength | > 200 MPa |
| Elongation A | > 12 % |
| Hardness Brinell | > 50 HB |
| Yield Strength | > 80 MPa |

| Tolerances | Thickness (mm) | Size (mm) | Width (mm) | Length (mm) |
|----------------|----------------|-----------|---------------------------|---------------------------|
| Plates | to 250 | - 0 / + 1 | according to DIN EN 485-3 | according to DIN EN 485-3 |
| Block cuttings | above 250 | - 0 / + 3 | - 0 / + 5 | - 0 / + 5 |

PLATE SIZES

Other sizes possible on request

| | |
|-----------|------------------|
| Thickness | from 8mm - 100mm |
| Width | to 1520mm |
| Length | 3020mm / 4000mm |

CONTACT

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REVISION HISTORY

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|-------------------|---------------|
| Datasheet Updated | 12 March 2025 |
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