

AlSi10Mg

Technology: LPBF

Lightweight Alloy

**APPLICATIONS:**

- Automotive
- Aerospace
- Consumer Electronics
- Tooling

DESCRIPTION:

Aluminum AlSi10Mg is a high-strength aluminum alloy known for its excellent combination of lightweight properties, thermal conductivity, and corrosion resistance.

FEATURES:

This alloy is composed primarily of aluminum, with significant additions of silicon (10%) and magnesium (0.3%), which enhance its mechanical properties and make it an ideal choice for complex structures and components.

TECHNICAL DATA

PROPERTY	AS PRINTED	WITH HEAT TREATMENT
Tensile Strength	70 ksi	42 ksi
Yield Strength	42 ksi	26 ksi
Elongation	3-6%	11% +

KEY PROPERTIES:

- High Strength-to-Weight Ratio
- Thermal Conductivity
- Corrosion Resistance
- Good Machinability and Castability