



Direct Metal Laser Sintering Aluminum (AlSi10Mg)

PRODUCT SPECIFICATIONS

DESCRIPTION: AlSi10Mg is an aluminum master alloy often specified for casting or die casting parts. It is characterized by having excellent strength-to-weight among aluminum alloys, but is lower on elongation to break. It has good high-temperature characteristics, corrosion resistance and fatigue resistance.

APPLICATIONS: Due to its high strength-to-weight ratio, AlSi10Mg is a good choice among casting materials for automotive and aerospace applications, notably gearboxes, housings and brackets that are subject to high loading.

PROPERTIES

Standard	Ultimate Tensile Strength (ksi)	0.2% Yield (ksi)	Elongation (%)	Hardness (HRB)
EN DIN 1706:2013	37.7	31.9	1	47.2

KEY BENEFITS

- High Strength
- Excellent High-temperature and Corrosion Resistance
- Good Tensile, Fatigue, Creep and Rupture Strength



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