

Material Data Sheet

G-ALSi10Mg(Cu) (T6) EN AC-43200 older / VDS : 233

This near-eutectic remelt alloy is distinguished by highly favorable casting properties, good adjustability, and medium strength at low costs and additionally possible heat treatment. Thus, it is used by our customers predominantly for complex and thin-walled components in the following areas: Automotive, engine manufacturing, mechanical engineering, and food products.

Material condition	Yield strength $R_{p0,2}$ (N/mm ²) at least	Tensile strength R_m (N/mm ²) at least	Elongation at break A (%) at least	Brinell hardness HBW at least
Cast	80	160	1	50
T6 / Swapped out warm	180	220	1	75

All values determined according to DIN EN 1706 on a separately cast test bar. According to DIN EN 1706, samples from the respective component may vary up to 30% for the yield strength and tensile strength and up to 50% for elongation at break. Desired mechanical properties can be “set” in component areas through certain measures - talk to us about this.

