

Material Data Sheet

G-ALSi10Mg(a) (T6) EN AC-43000 older / VDS : 239

This near-eutectic remelt alloy is distinguished by highly favorable casting properties, medium strength, and superior corrosion resistance. 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	150	2	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.

