

Material Data Sheet

G-ALSi7Mg (T6) EN AC-42000

This primary alloy is distinguished by highly favorable mechanical properties and superior corrosion resistance.

Thus, it is used by our customers predominantly in the following areas: Fittings, automotive engineering, engine manufacturing, rail vehicle construction, and defense technology.

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	140	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.

