

# Material Data Sheet

## G-ALSi7Mg 0,3 T6 EN AC-42100

This primary alloy is distinguished by highly favorable mechanical properties and a high elongation at break.

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 <sup>2</sup> ) at least	Tensile strength $R_m$ (N/mm <sup>2</sup> ) at least	Elongation at break A (%) at least	Brinell hardness HBW at least
T6 / Swapped out warm	190	230	2	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.

