

Material Data Sheet

G-ALCu4Ti EN AC-21100 (T6)

This high-strength - and highly sophisticated in manufacturing - sand casting alloy is distinguished by a very high mechanical strength, high-temperature strength, elongation, and hardness. Thus, it is used by our customers predominantly for components in the following areas: Rail vehicle construction, gear manufacturing, special machinery, and defense technology.

Material condition	Yield strength Rp _{0,2} (N/mm ²) at least	Tensile strength Rm (N/mm ²) at least	Elongation at break A (%) at least	Brinell hardness HBW at least
T6 / Swapped out warm	200	300	3	95
T64 / Swapped out in parts	180	280	5	85

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.

