Material Data Sheet

G-AlZn10Si8Mg EN AC-71100 older / VDS: 108

This self-hardening sand casting alloy is distinguished by high mechanical strength, elongation, and hardness with a reduced corrosion resistance, as well as very favorable adjustability. Thus, it is used by our customers predominantly for large housing components, for which a heat treatment is not possible, in the following areas: System manufacturing, mechanical engineering, electromechanical engineering (battery housing), and hydraulics. Also suitable for visible components primarily due to the high ability to be polished.

Material condition	Yield	Tensile	Elongation	Brinell
	strength	strength	at break	hardness
	Rpo,2 (N/mm²)	Rm (N/mm²)	A (%)	HBW
	at least	at least	at least	at least
T1 / Swapped out cold	190	210	1	90

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.

