

Metal 1 / Alu

We have provided an overview to allow you to compare the mechanical properties of the most common processed alloys. The figures relate to test rods cast separately. The material properties "in the cast part" may sometimes deviate considerably from those of the test rods. We cast a large number of other alloys. Contact us if the alloy you need is not shown in this list.

Designation	Numeric designation EN 1676	Casting process Heat treatment	Tensile strength (RmN/mm ²)	Yield strength (Rp0.2N/mm ²)	Elongation at failure (%)	Hardness (HBS)
AlSi10Mg	EN AC 43000	Sand casting	150	80	2	50
AlSi10Mg	EN AC 43000	Sand casting T6	220	180	1	75
AlSi10Mg	EN AC 43000	Chill casting	180	90	2	55
AlSi10Mg	EN AC 43000	Die casting	240	140	1	70
AlSi7Mg0.3	EN AC 42100	Sand casting	140	80	2	60
AlSi7Mg0.3	EN AC 42100	Sand casting T6	240	200	3	80
AlSi7Mg0.3	EN AC 42100	Chill casting T6	250	200	3	80
AlSi7Mg0.6	EN AC 42200	Sand casting	150	90	2	60
AlSi7Mg0.6	EN AC 42200	Sand casting T6	250	220	2	90
AlSi7Mg0.6	EN AC 42200	Chill casting T6	320	240	3	100
AlSi8Cu3	EN AB 46200	Sand casting	150	90	1	60
AlSi8Cu3	EN AB 46200	Chill casting	170	100	0.5-3	75
AlSi8Cu3	EN AB 46200	Die casting	200	110	1	80
AlSi 12	EN AC 44100	Sand casting	150	100	5	55
AlSi 12	EN AC 44100	Chill casting	170	120	6	55
AlSi 12 Cu	EN AC 44200	Chill casting	170	90	6	50
AlSi 12 Cu	EN AC 44200	Die casting	170	100	7	55