

Database of Steel and Alloy (Marochnik)

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Characteristics for grade AK5M4 (AK5M4).

Grade :	AK5M4 (AK5M4)
Classification :	Aluminium casting alloys
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Chemical composition in % for grade AK5M4 (AK5M4)

Fe	Si	Mn	Ni	Ti	Al	Cu	Mg	Zn	Impurity
max 1.4	3.5 - 6	0.2 - 0.6	max 0.5	0.05 - 0.2	84.8 - 93.05	3 - 5	0.2 - 0.5	max 1.5	all 3.2

Comment: **Al** is a basis; the percentage of **Al** is given approximately.

Mechanical properties under T=20°C for grade AK5M4 (AK5M4)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Casting, GOST 1583-93			118-196		0.5-1			

Brinell hardness for AK5M4 (AK5M4) , Casting GOST 1583-93	HB 10⁻¹ = 70 - 90 MPa
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Equivalent steels for grade AK5M4 (AK5M4)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	Italy	Sweden	Poland	Czechia	Inter
-	DIN, WNr	JIS	AFNOR	BS	UNI	SS	PN	CSN	ISO
A03080	G-AlSiCu4	AC2A	A-S5U3G	LM21	G-Al5.5Cu	AlSi6Cu4 G-AlSi6Cu4	AlSiCu4	424357	AlSiCu3

Specification : Mechanical properties :

σ_B	- Tensile strength , [MPa]
σ_T	- Yield stress , [MPa]
δ_5	- Specific elongation at fracture , [%]
ψ	- Reduction of area , [%]
KCU	- Impact strength , [kJ / m ²]
HB	- Brinell hardness , [MPa]

Database of steels and alloys (Marochnik) contains information about chemical composition and properties more then 2500 steels and alloys (stainless steel, alloy steel, carbone steel, structural steel, tool steel, cast iron, aluminum alloy, titanium alloy, copper alloy, nickel alloy, magnesium alloy and others).
Helpfull for specialists in grade technology, structural engineer, mechanical engineer, metallurgy and metal trader

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