

Database of Steel and Alloy (Marochnik)

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[Home](#) [European steel grades](#) [Steel and Alloy](#) [Search](#) [Equivalent grades](#) [Grading](#) [GOST Standard](#) [Contacts](#)

YOU HERE: [Steel and Alloy](#) -> [Aluminium alloy](#)

Characteristics for grade AK21M2.5N2.5 (AK21M2.5H2.5).

Grade :	AK21M2.5N2.5 (AK21M2.5H2.5) (ВКЖЛС-2)
Classification :	Aluminium casting alloys
Equivalent grades:	Is absent

Chemical composition in % for grade AK21M2.5N2.5 (AK21M2.5H2.5)

Fe	Si	Mn	Ni	Cr	Ti	Al	Cu	Pb	Mg	Zn	Sn	Impurity
max 0.9	20 - 22	0.2 - 0.4	2.2 - 2.8	0.2 - 0.4	0.1 - 0.3	74.9 - 69.5	2.2 - 3	max 0.05	0.2 - 0.5	max 0.2	max 0.01	all 1.1

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

Mechanical properties under T=20°C for grade AK21M2.5N2.5 (AK21M2.5H2.5)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
cast in a metal mould, GOST 1583-93			157-186					

Brinell hardness for AK21M2.5N2.5 (AK21M2.5H2.5) , cast in a metal mould GOST 1583-93	HB 10⁻¹ = 90 - 100 MPa
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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 / m²]
- 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

[Top](#)

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