

Database of Steel and Alloy (Marochnik)

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Characteristics for grade ZnA14Cu3A (ZnA14Cu3A).

Grade :	ZnA14Cu3A (ZnA14Cu3A)
Classification :	Zinc casting alloys
Equivalent grades:	Is absent

Chemical composition in % for grade ZnA14Cu3A (ZnA14Cu3A)

Fe	Si	Al	Cu	Pb	Mg	Zn	Sn	Cd	-
max 0.06	max 0.015	3.5 - 4.5	2.5 - 3.7	max 0.004	0.02 - 0.06	91.66 - 93.98	max 0.001	max 0.003	Pb+Sn+Cd<0.007

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

Mechanical properties under T=20°C for grade ZnA14Cu3A (ZnA14Cu3A)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
sand (mould) casting, GOST 25140-93			215		1			

Brinell hardness for ZnA14Cu3A (ZnA14Cu3A) , sand (mould) casting GOST 25140-93	HB 10⁻¹ = 85 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

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