

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LTS30A3 (ЛЦ30A3).

Grade :	LTS30A3 (ЛЦ30A3) (ЛА67-2.5)
Classification :	Cast cooper-zinc alloys
Equivalent grades:	Is absent

Chemical composition in % for grade LTS30A3 (ЛЦ30A3)

Fe	Si	Mn	Ni	P	Al	Cu	Pb	Zn	Sb	Sn	Impurity
max 0.8	max 0.3	max 0.5	max 0.3	max 0.05	2 - 3	66 - 68	max 0.7	26.4 - 32	max 0.1	max 0.7	all 2.6

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

Mechanical properties under T=20°C for grade LTS30A3 (ЛЦ30A3)

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 17711-93			392		15			
sand (mould) casting, GOST 17711-93			294		12			

Brinell hardness for LTS30A3 (ЛЦ30A3) , cast in a metal mould GOST 17711-93	HB 10⁻¹ = 90 MPa
Brinell hardness for LTS30A3 (ЛЦ30A3) , sand (mould) casting GOST 17711-93	HB 10⁻¹ = 80 MPa

Technological properties of the material LTS30A3 (ЛЦ30A3).

Melting temperature :	995 °C
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Physical properties for grade LTS30A3 (ЛЦ30A3)

T	E 10 ⁻⁵	α 10 ⁶	λ	ρ	C	R 10 ⁹
Grade	MPa	1/Grade	Watt/(m·Grade)	kg/m ³	J/(kg·Grade)	Ohm·m
20			113	8500		80

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]

Physical properties :

T - Test temperature , [Grade]

E - Young modulus , [MPa]

α - Coefficient of linear expansion (range 20° - T) , [1/Grade]

λ - Thermal (heat) condition coefficient , [Watt/(m·Grade)]

ρ - Density , [kg/m³]

C - Specific heat (range 20° - T) , [J/(kg·Grade)]

R - Electrical resistance , [Ohm·m]

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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