

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LTS25S2 (ЛЦ25С2).

Grade :	LTS25S2 (ЛЦ25С2)
Classification :	Cast cooper-zinc alloys
Equivalent grades:	Go here

Chemical composition in % for grade LTS25S2 (ЛЦ25С2)

Fe	Si	Mn	Ni	Al	Cu	Pb	Zn	Sb	Sn	Impurity
max 0.7	max 0.5	max 0.5	max 1	max 0.3	70 - 75	1 - 3	19 - 28.5	max 0.2	0.5 - 1.5	all 1.5

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

Mechanical properties under T=20°C for grade LTS25S2 (ЛЦ25С2)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
sand (mould) casting, GOST 17711-93			146		8			

Brinell hardness for LTS25S2 (ЛЦ25С2) , sand (mould) casting GOST 17711-93	HB 10 ⁻¹ = 60 MPa
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Technological properties of the material LTS25S2 (ЛЦ25С2).

Melting temperature :	920 °C
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Physical properties for grade LTS25S2 (ЛЦ25С2)

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			100.5	8500		90

Equivalent steels for grade LTS25S2 (ЛЦ25С2)

Warning! Indicated both exact and nearest equivalents.

USA
-
C85200

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]

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/m ³]
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 than 2500 steels and alloys (stainless steel, alloy steel, carbon 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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