

Database of Steel and Alloy (Marochnik)

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Characteristics for grade L85 (Л85).

Grade :	L85 (Л85)
Classification :	Copper-zinc alloys pressure treated
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Chemical composition in % for grade L85 (Л85)

Fe	P	Cu	Pb	Zn	Sb	Bi	Impurity
max 0.1	max 0.01	84 - 86	max 0.03	13.7 - 16	max 0.005	max 0.002	all 0.3

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

Mechanical properties under T=20°C for grade L85 (Л85)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Strip, GOST 931-90			250-360		38			
Strip, GOST 931-90			390		3			

Brinell hardness for L85 (Л85) , Sheet GOST 2208-2007	HB 10 ⁻¹ = 65 MPa
Brinell hardness for L85 (Л85) , Sheet GOST 2208-2007	HB 10 ⁻¹ = 110 MPa

Technological properties of the material L85 (Л85) .

Melting temperature :	1025 °C
Forging temperature :	700 - 850 °C
Annealing temperature :	500 - 650 °C

Physical properties for grade L85 (Л85)

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	1.05		152.4	8750		47
100		18.7			398	

Equivalent steels for grade L85 (Л85)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Sweden	Poland	Czechia	Austria
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-	DIN,WNr	JIS	AFNOR	BS	EN	UNI	SS	PN	CSN	ONORM
C23000	2.0240 CuZn15	C2300	CuZn15 U-Z15	CZ102	CuZn15	P-CuZn15 P-OT85	CuZn15	CuZn15	423202	CuZn15

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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