

Database of Steel and Alloy (Marochnik)

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Characteristics for grade L96 (Л96).

Grade :	L96 (Л96)
Classification :	Copper-zinc alloys pressure treated
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Chemical composition in % for grade L96 (Л96)

Fe	P	Cu	Pb	Zn	Sb	Bi	Impurity
max 0.1	max 0.01	95 - 97	max 0.03	2.66 - 4.8	max 0.005	max 0.002	all 0.2

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

Mechanical properties under T=20°C for grade L96 (Л96)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Pipe, GOST 617-2006			180-190		32			
soft			220-260		45-55			
hard			420-480		1-3			

Brinell hardness for L96 (Л96) , soft	HB 10 ⁻¹ = 50 - 60 MPa
Brinell hardness for L96 (Л96) , hard	HB 10 ⁻¹ = 130 - 145 MPa

Technological properties of the material L96 (Л96) .

Melting temperature :	1070 °C
Forging temperature :	700 - 850 °C
Annealing temperature :	450 - 600 °C

Physical properties for grade L96 (Л96)

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	1.14	17	245	8850	389	43

Equivalent steels for grade L96 (Л96)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Poland	Czechia
-	DIN, WNr	JIS	AFNOR	BS	EN	PN	CSN
C21000 Cu-5Zn	2.0220 CuZn5	C2100 C21000	CuZn5 U-Z5	CZ125	CuZn5	CuZn5	423200

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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