

Database of Steel and Alloy (Marochnik)

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Characteristics for grade L68 (Л68).

Grade :	L68 (Л68)
Classification :	Copper-zinc alloys pressure treated
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Chemical composition in % for grade L68 (Л68)

Fe	P	Cu	Pb	Zn	Sb	Bi	Impurity
max 0.1	max 0.01	67 - 70	max 0.03	29.7 - 33	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 L68 (Л68)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Pipe, GOST 494-90			290					
Wire, GOST 1066-90			290-370		20-40			
Wire, GOST 1066-90			540-930					
Strip, GOST 931-90			430-540		10			
Strip cold-rolled, GOST 5362-78			290-340		50			
Strip, GOST 931-90			290-370		42			

Brinell hardness for L68 (Л68) , Sheet GOST 2208-2007	HB 10 ⁻¹ = 70 MPa
Brinell hardness for L68 (Л68) , Sheet GOST 2208-2007	HB 10 ⁻¹ = 125 MPa

Technological properties of the material L68 (Л68) .

Melting temperature :	938 °C
Forging temperature :	700 - 850 °C
Annealing temperature :	550 - 650 °C

Physical properties for grade L68 (Л68)

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	1.12		113	8500		72

100		19			376.8	
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Equivalent steels for grade L68 (Л68)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Poland	Czechia	Austria
-	DIN, WNr	JIS	AFNOR	BS	EN	UNI	PN	CSN	ONORM
C26800	2.0280 CuZn33	C2680	CuZn33 U-Z33	CZ107	CuZn33 CW506L	P-CuZn33 P-OT67	CuZn33	423212	CuZn33

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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