

Database of Steel and Alloy (Marochnik)

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Characteristics for grade L70 (Л70).

Grade :	L70 (Л70)
Classification :	Copper-zinc alloys pressure treated
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Chemical composition in % for grade L70 (Л70)

Fe	P	Cu	Pb	Zn	Sb	Bi	Impurity
max 0.07	max 0.005	69 - 71	max 0.05	28.67 - 30.8	max 0.002	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 L70 (Л70)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Sheet, GOST 2208-2007			270-360		40			
Sheet, GOST 2208-2007			430		10			
Pipe, GOST 21646-2003			340	130	35			

Brinell hardness for L70 (Л70) , Sheet GOST 2208-2007	HB 10 ⁻¹ = 70 MPa
Brinell hardness for L70 (Л70) , Sheet GOST 2208-2007	HB 10 ⁻¹ = 125 MPa

Technological properties of the material L70 (Л70) .

Melting temperature :	950 °C
Forging temperature :	700 - 850 °C
Annealing temperature :	550 - 650 °C

Physical properties for grade L70 (Л70)

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	1.15		121.4	8500		69
100		18.9			376.8	

Equivalent steels for grade L70 (Л70)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Sweden	Poland	Austria	Inter
-	DIN,WNr	JIS	AFNOR	BS	EN	UNI	SS	PN	ONORM	ISO
C26000	2.0265 CuZn30	C2600	CuZn30 U-Z30	CZ106	CuZn30 CW505L	P-CuZn30 P-OT70	CuZn30	CuZn30	CuZn30	CuZn30

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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