

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LO62-1 (ЛО62-1).

Grade :	LO62-1 (ЛО62-1)
Classification :	Copper-zinc alloys pressure treated
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Chemical composition in % for grade LO62-1 (ЛО62-1)

Fe	P	Cu	Pb	Zn	Sb	Bi	Sn	Impurity
max 0.1	max 0.01	61 - 63	max 0.1	35.6 - 38.3	max 0.005	max 0.002	0.7 - 1.1	all 0.3

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

Mechanical properties under T=20°C for grade LO62-1 (ЛО62-1)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 2060-2006			390					
Bar, GOST 2060-2006			360					
Strip hotrolled, GOST 931-90			340-440		20			
Strip, GOST 931-90			390		5			

Brinell hardness for LO62-1 (ЛО62-1) , Sheet GOST 2208-2007	HB 10 ⁻¹ = 145 MPa
Brinell hardness for LO62-1 (ЛО62-1) , Bar GOST 2060-2006	HB 10 ⁻¹ = 100 MPa
Brinell hardness for LO62-1 (ЛО62-1) , Bar GOST 2060-2006	HB 10 ⁻¹ = 80 MPa

Technological properties of the material LO62-1 (ЛО62-1) .

Melting temperature :	906 °C
Forging temperature :	700 - 780 °C
Annealing temperature :	550 - 650 °C

Physical properties for grade LO62-1 (ЛО62-1)

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		108.9	8500		78

100

19.3

Equivalent steels for grade LO62-1 (ЛО62-1)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan
-	DIN,WNr	JIS
C46400	2.0530 CuZn38Sn1	C4621 C4622

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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