

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LZHS58-1-1 (ЛЖС58-1-1).

Grade :	LZHS58-1-1 (ЛЖС58-1-1)
Classification :	Copper-zinc alloys pressure treated
Equivalent grades:	Is absent

Chemical composition in % for grade LZHS58-1-1 (ЛЖС58-1-1)

Fe	P	Cu	Pb	Zn	Sb	Bi	Impurity
0.7 - 1.3	max 0.02	56 - 58	0.7 - 1.3	38.9 - 42.6	max 0.01	max 0.003	all 0.5

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

Mechanical properties under T=20°C for grade LZHS58-1-1 (ЛЖС58-1-1)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 2060-2006			440		10			
Bar, GOST 2060-2006			290		20			

Brinell hardness for LZHS58-1-1 (ЛЖС58-1-1) , Bar GOST 2060-2006	HB 10 ⁻¹ = 130 MPa
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Technological properties of the material LZHS58-1-1 (ЛЖС58-1-1).

Melting temperature :	895 °C
Annealing temperature :	600 - 650 °C

Physical properties for grade LZHS58-1-1 (ЛЖС58-1-1)

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	1.06		108.9	8400		70
100		20.4				

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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