

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LAZH60-1-1 (ЛАЖ60-1-1).

Grade :	LAZH60-1-1 (ЛАЖ60-1-1)
Classification :	Copper-zinc alloys pressure treated
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Chemical composition in % for grade LAZH60-1-1 (ЛАЖ60-1-1)

Fe	Mn	P	Al	Cu	Pb	Zn	Sb	Bi	Impurity
0.75 - 1.5	0.1 - 0.6	max 0.01	0.7 - 1.5	58 - 61	max 0.4	34.7 - 40.4	max 0.005	max 0.002	all 0.7

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

Mechanical properties under T=20°C for grade LAZH60-1-1 (ЛАЖ60-1-1)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 2060-2006			440		18			
soft			400-450		45-55			
hard			700-750		7-10			

Brinell hardness for LAZH60-1-1 (ЛАЖ60-1-1), soft	HB 10 ⁻¹ = 45 - 55 MPa
Brinell hardness for LAZH60-1-1 (ЛАЖ60-1-1), hard	HB 10 ⁻¹ = 165 - 175 MPa

Technological properties of the material LAZH60-1-1 (ЛАЖ60-1-1).

Melting temperature :	904 °C
Forging temperature :	600 - 800 °C
Annealing temperature :	600 - 650 °C

Physical properties for grade LAZH60-1-1 (ЛАЖ60-1-1)

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	1.05		75.3	8300		90
100		21.6				

Equivalent steels for grade LAZH60-1-1 (ЛАЖ60-1-1)

Warning! Indicated both exact and nearest equivalents.

Japan
JIS
C6782

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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