

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LOMsh70-1-0.05 (ЛОМш70-1-0.05).

Grade :	LOMsh70-1-0.05 (ЛОМш70-1-0.05)
Classification :	Copper-zinc alloys pressure treated
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Chemical composition in % for grade LOMsh70-1-0.05 (ЛОМш70-1-0.05)

Fe	P	Cu	As	Pb	Zn	Sb	Bi	Sn	Impurity
max 0.1	max 0.01	69 - 71	0.02 - 0.06	max 0.07	27.44 - 29.97	max 0.005	max 0.002	1 - 1.5	all 0.3

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

Mechanical properties under T=20°C for grade LOMsh70-1-0.05 (ЛОМш70-1-0.05)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Pipe, GOST 21646-2003			320		45			
Pipe, GOST 21646-2003			370		40			

Brinell hardness for LOMsh70-1-0.05 (ЛОМш70-1-0.05) , soft	HB 10 ⁻¹ = 50 - 58 MPa
Brinell hardness for LOMsh70-1-0.05 (ЛОМш70-1-0.05) , hard	HB 10 ⁻¹ = 140 - 150 MPa

Friction coefficient of the material LOMsh70-1-0.05 (ЛОМш70-1-0.05) .

Friction coefficient with oil :	0.0082
Friction coefficient without oil :	0.3

Technological properties of the material LOMsh70-1-0.05 (ЛОМш70-1-0.05) .

Melting temperature :	949 °C
Annealing temperature :	700 - 850 °C

Physical properties for grade LOMsh70-1-0.05 (ЛОМш70-1-0.05)

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	1.04		117	8400		710
100		19				

Equivalent steels for grade LOMsh70-1-0.05 (ЛОМш70-1-0.05)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan
-	DIN,WNr	JIS
C44300	2.0470 CuZn28Sn1	C4430

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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