

Database of Steel and Alloy (Marochnik)

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Characteristics for grade L60 (Л60).

Grade :	L60 (Л60)
Classification :	Copper-zinc alloys pressure treated
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Chemical composition in % for grade L60 (Л60)

Fe	P	Cu	Pb	Zn	Sb	Bi	Impurity
max 0.2	max 0.01	59 - 62	max 0.3	37 - 41	max 0.01	max 0.003	all 1

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

Mechanical properties under T=20°C for grade L60 (Л60)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Pipe, GOST 494-90			340					
soft			370-420		40-50			
hard			650-750		2-4			

Brinell hardness for L60 (Л60) , soft	HB 10 ⁻¹ = 60 - 70 MPa
Brinell hardness for L60 (Л60) , hard	HB 10 ⁻¹ = 155 - 165 MPa

Friction coefficient of the material L60 (Л60) .

Friction coefficient with oil :	0.012
Friction coefficient without oil :	0.45

Technological properties of the material L60 (Л60) .

Melting temperature :	904 °C
Forging temperature :	750 - 880 °C
Annealing temperature :	550 - 650 °C

Physical properties for grade L60 (Л60)

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	1.18		104.67	8400		75
100		20.7			376.81	

Equivalent steels for grade L60 (Л60)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Poland	Czechia	Austria	Inter
-	DIN, WNr	JIS	AFNOR	BS	EN	UNI	PN	CSN	ONORM	ISO
C28000	2.0360 CuZn40	C2801 C3712	CuZn40 U-Z40	CZ109	CuZn40 CW509L	P-CuZn40 P-OT60	CuZn40	423220	CuZn40	CuZn40

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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