

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LS59-2 (ЛС59-2).

Grade :	LS59-2 (ЛС59-2)
Classification :	Copper-zinc alloys pressure treated
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Chemical composition in % for grade LS59-2 (ЛС59-2)

Fe	Ni	Al	Cu	Pb	Zn	Sn	Impurity
max 0.4	max 0.4	max 0.1	57 - 59	1.5 - 2.5	37.5 - 41.3	max 0.3	all 0.2

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

Mechanical properties under T=20°C for grade LS59-2 (ЛС59-2)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 2060-2006			330		25			
Bar, GOST 2060-2006			490		7			
Bar, GOST 2060-2006			360		22			

Brinell hardness for LS59-2 (ЛС59-2) , Bar GOST 2060-2006	HB 10 ⁻¹ = 80 MPa
Brinell hardness for LS59-2 (ЛС59-2) , Bar GOST 2060-2006	HB 10 ⁻¹ = 130 MPa

Physical properties for grade LS59-2 (ЛС59-2)

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				8400		

Equivalent steels for grade LS59-2 (ЛС59-2)

Warning! Indicated both exact and nearest equivalents.

European
EN
CuZn40Pb2

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 / m ²]
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/m ³]
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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