

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LS74-3 (ЛС74-3).

Grade :	LS74-3 (ЛС74-3)
Classification :	Copper-zinc alloys pressure treated
Equivalent grades:	Is absent

Chemical composition in % for grade LS74-3 (ЛС74-3)

Fe	P	Cu	Pb	Zn	Sb	Bi	Impurity
max 0.1	max 0.01	72 - 75	2.4 - 3	21.75 - 25.6	max 0.005	max 0.002	all 0.25

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

Mechanical properties under T=20°C for grade LS74-3 (ЛС74-3)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
soft			300-400		40-55			
hard			600-700		2-5			

Brinell hardness for LS74-3 (ЛС74-3) , soft	HB 10 ⁻¹ = 40 - 50 MPa
Brinell hardness for LS74-3 (ЛС74-3) , hard	HB 10 ⁻¹ = 130 - 140 MPa

Technological properties of the material LS74-3 (ЛС74-3) .

Melting temperature :	965 °C
Annealing temperature :	600 - 650 °C

Physical properties for grade LS74-3 (ЛС74-3)

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		121.4	8500		68
100		17.5				

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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