

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LKS65-1.5-3 (ЛК65-1.5-3).

Grade :	LKS65-1.5-3 (ЛК65-1.5-3)
Classification :	Copper-zinc alloys pressure treated
Equivalent grades:	Is absent

Chemical composition in % for grade LKS65-1.5-3 (ЛК65-1.5-3)

Fe	Si	Ni	P	Cu	Pb	Zn	Sb	Bi	Sn	Impurity
max 0.15	1 - 2	max 0.1	max 0.01	63.5 - 66.5	2.5 - 3.5	27.5 - 33	max 0.005	max 0.002	max 0.2	all 0.5

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

Mechanical properties under T=20°C for grade LKS65-1.5-3 (ЛК65-1.5-3)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
casted			300		15-20			
deformed			700		8			

Brinell hardness for LKS65-1.5-3 (ЛК65-1.5-3) ,	HB 10 ⁻¹ = 80 MPa
Brinell hardness for LKS65-1.5-3 (ЛК65-1.5-3) , deformed	HB 10 ⁻¹ = 160 MPa

Friction coefficient of the material LKS65-1.5-3 (ЛК65-1.5-3) .

Friction coefficient with oil :	0.012
Friction coefficient without oil :	0.32

Technological properties of the material LKS65-1.5-3 (ЛК65-1.5-3) .

Melting temperature :	870 °C
Casting temperature :	970 - 1000 °C
Linear shrinkage :	1.7 %

Physical properties for grade LKS65-1.5-3 (ЛК65-1.5-3)

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	0.98			8500		

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	- Termal (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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