

Database of Steel and Alloy (Marochnik)

splat.kharkov.com/en

[Home](#) [European steel grades](#) [Steel and Alloy](#) [Search](#) [Equivalent grades](#) [Grading](#) [GOST Standard](#) [Contacts](#)

YOU HERE: [Steel and Alloy](#) -> [Latten \(copper-zinc alloy\)](#)

Characteristics for grade LN65-5 (ЛН65-5).

Grade :	LN65-5 (ЛН65-5)
Classification :	Copper-zinc alloys pressure treated
Equivalent grades:	Is absent

Chemical composition in % for grade LN65-5 (ЛН65-5)

Fe	Ni	P	Cu	Pb	Zn	Sb	Bi	Impurity
max 0.15	5 - 6.5	max 0.01	64 - 67	max 0.03	26.2 - 31	max 0.005	max 0.002	all 0.3

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

Mechanical properties under T=20°C for grade LN65-5 (ЛН65-5)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
soft			380-450		60-65			
hard			680-750		3-6			

Brinell hardness for LN65-5 (ЛН65-5) , soft	HB 10 ⁻¹ = 55 - 65 MPa
Brinell hardness for LN65-5 (ЛН65-5) , hard	HB 10 ⁻¹ = 160 - 170 MPa

Friction coefficient of the material LN65-5 (ЛН65-5) .

Friction coefficient with oil :	0.008
Friction coefficient without oil :	0.2

Technological properties of the material LN65-5 (ЛН65-5) .

Melting temperature :	960 °C
Forging temperature :	750 - 870 °C
Annealing temperature :	600 - 650 °C

Physical properties for grade LN65-5 (ЛН65-5)

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	1.12		58.6	8600		140

100

18.2

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

[Top](#)

© 2003 - 2013 All rights reserved. [About program.](#)

The entire risk as to use of the Database of Steel and Alloy (Marochnik) content is assumed by you the user

