

Database of Steel and Alloy (Marochnik)

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Characteristics for grade L-NiMn13-7 (L-NiMn13-7).

Grade :	L-NiMn13-7 (L-NiMn13-7)
Classification :	Nickel cast iron
Equivalent grades:	Is absent

Chemical composition in % for grade L-NiMn13-7 (L-NiMn13-7)

C	Si	Mn	Ni	Cr	Cu
max 3	1.5 - 3	6 - 7	12 - 14	max 0.2	max 0.5

Mechanical properties under T=20°C for grade L-NiMn13-7 (L-NiMn13-7)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Casting, GOST 7769-82			140-220					

Brinell hardness for L-NiMn13-7 (L-NiMn13-7) , GOST 7769-82

HB 10⁻¹ = 120 - 150 MPa

Physical properties for grade L-NiMn13-7 (L-NiMn13-7)

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	0.8					

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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