

Database of Steel and Alloy (Marochnik)

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Characteristics for grade MN0.6 (MH0.6).

Grade :	MN0.6 (MH0.6) (СплавТП)
Classification :	Copper-nickel alloys
Equivalent grades:	Is absent

Chemical composition in % for grade MN0.6 (MH0.6)

Ni+Co	Fe	C	Si	S	P	Cu	As	Pb	Sb	Bi	Impurity
0.57 - 0.63	max 0.01	max 0.002	max 0.002	max 0.005	max 0.002	99.27 - 99.43	max 0.002	max 0.005	max 0.002	max 0.002	all 0.1

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

Mechanical properties under T=20°C for grade MN0.6 (MH0.6)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
soft			240-300		32-40			
hard			380-450		3-6			

Brinell hardness for MN0.6 (MH0.6) , soft	HB 10 ⁻¹ = 50 - 60 MPa
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Technological properties of the material MN0.6 (MH0.6) .

Melting temperature :	1084 °C
Forging temperature :	800 - 930 °C
Annealing temperature :	500 - 600 °C

Physical properties for grade MN0.6 (MH0.6)

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	1.2			8960		310

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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