

Database of Steel and Alloy (Marochnik)

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Characteristics for grade MNTSS16-29-1.8 (МНЦ16-29-1.8).

Grade :	MNTSS16-29-1.8 (МНЦ16-29-1.8)
Classification :	Copper-nickel alloys
Equivalent grades:	Is absent

Chemical composition in % for grade MNTSS16-29-1.8 (МНЦ16-29-1.8)

Ni+Co	Cu	Pb	Zn	Impurity
15 - 16.5	51 - 55	1.6 - 2	27.5 - 34	all 1

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

Mechanical properties under T=20°C for grade MNTSS16-29-1.8 (МНЦ16-29-1.8)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
soft			350-450		40-45			
hard			600-700		2-4			

Technological properties of the material MNTSS16-29-1.8 (МНЦ16-29-1.8).

Melting temperature :	1120 °C
Annealing temperature :	700 - 750 °C

Physical properties for grade MNTSS16-29-1.8 (МНЦ16-29-1.8)

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	1.27			8800		

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) conductivity 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 than 2500 steels and alloys (stainless steel, alloy steel, carbon 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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