

Database of Steel and Alloy (Marochnik)

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Characteristics for grade MNZHMts10-1-1 (МНЖМц10-1-1).

Grade :	MNZHMts10-1-1 (МНЖМц10-1-1)
Classification :	Copper-nickel alloys
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Chemical composition in % for grade MNZHMts10-1-1 (МНЖМц10-1-1)

Ni+Co	Fe	C	Mn	S	Cu	Pb	Zn	Impurity
9 - 11	1 - 2	max 0.03	0.3 - 1	max 0.03	85.5 - 89.7	max 0.03	max 0.3	all 0.5

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

Mechanical properties under T=20°C for grade MNZHMts10-1-1 (МНЖМц10-1-1)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Pipe, GOST 10092-2006			290		35			
Pipe, GOST 10092-2006			420		5			

Physical properties for grade MNZHMts10-1-1 (МНЖМц10-1-1)

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				8900		

Equivalent steels for grade MNZHMts10-1-1 (МНЖМц10-1-1)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan
-	DIN, WNr	JIS
C70600	2.0872 CuNi10Fe1Mn	C7060

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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