

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LMts58-2 (ЛМц58-2).

Grade :	LMts58-2 (ЛМц58-2)
Classification :	Copper-zinc alloys pressure treated
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Chemical composition in % for grade LMts58-2 (ЛМц58-2)

Fe	Mn	P	Cu	Pb	Zn	Sb	Bi	Impurity
max 0.5	1 - 2	max 0.01	57 - 60	max 0.1	35.8 - 42	max 0.005	max 0.002	all 1.2

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

Mechanical properties under T=20°C for grade LMts58-2 (ЛМц58-2)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 2060-2006			390		25			
Bar, GOST 2060-2006			410-440		20			
Strip, GOST 931-90			590		3			
Strip, GOST 931-90			380-470		30			
Strip hotrolled, GOST 931-90			390		25			

Brinell hardness for LMts58-2 (ЛМц58-2) , Sheet GOST 2208-2007	HB 10 ⁻¹ = 85 MPa
Brinell hardness for LMts58-2 (ЛМц58-2) , Sheet GOST 2208-2007	HB 10 ⁻¹ = 120 MPa
Brinell hardness for LMts58-2 (ЛМц58-2) , Bar GOST 2060-2006	HB 10 ⁻¹ = 125 - 130 MPa
Brinell hardness for LMts58-2 (ЛМц58-2) , Bar GOST 2060-2006	HB 10 ⁻¹ = 80 MPa

Friction coefficient of the material LMts58-2 (ЛМц58-2) .

Friction coefficient with oil :	0.012
Friction coefficient without oil :	0.32

Technological properties of the material LMts58-2 (ЛМц58-2) .

Melting temperature :	880 °C
Forging temperature :	650 - 750 °C
Annealing temperature :	600 - 650 °C

Physical properties for grade LMts58-2 (ЛМц58-2)

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	1.05		71.2	8400		108
100		21.2			372.6	

Equivalent steels for grade LMts58-2 (ЛМц58-2)

Warning! Indicated both exact and nearest equivalents.

Germany	England	European	Poland	Czechia
DIN,WNr	BS	EN	PN	CSN
2.0572 CuZn40Mn2	CZ136	CuZn40Mn2Fe1 CW723R	CuZn40Mn1.5	423234

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 - Termal (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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