

Database of Steel and Alloy (Marochnik)

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Characteristics for grade BrA10Mts2L (БpA10Mц2Л).

Grade :	BrA10Mts2L (БpA10Mц2Л)
Classification :	Tin-free foundry bronzes
Equivalent grades:	Is absent

Chemical composition in % for grade BrA10Mts2L (БpA10Mц2Л)

Fe	Si	Mn	Ni	P	Al	Cu	As	Pb	Zn	Sb	Sn	Impurity
max 1	max 0.2	1.5 - 2.5	max 1	max 0.1	9.6 - 11	83.7 - 88.9	max 0.05	max 0.1	max 1.5	max 0.05	max 0.2	all 2.8

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

Mechanical properties under T=20°C for grade BrA10Mts2L (БpA10Mц2Л)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
cast in a metal mould, GOST 493-79			490		12			
sand (mould) casting, GOST 493-79			490		12			

Brinell hardness for BrA10Mts2L (БpA10Mц2Л) , cast in a metal mould GOST 493	HB 10⁻¹ = 110 MPa
Brinell hardness for BrA10Mts2L (БpA10Mц2Л) , sand (mould) casting GOST 493	HB 10⁻¹ = 110 MPa

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]

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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