

Database of Steel and Alloy (Marochnik)

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Characteristics for grade BrO10S12N3 (БpO10C12H3).

Grade :	BrO10S12N3 (БpO10C12H3)
Classification :	Tin foundry bronzes
Equivalent grades:	Is absent

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

Mechanical properties under T=20°C for grade BrO10S12N3 (БpO10C12H3)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
cast in a metal mould			245		5			

Brinell hardness for BrO10S12N3 (БpO10C12H3) ,	HB 10 ⁻¹ = 73.5 MPa
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Friction coefficient of the material BrO10S12N3 (БpO10C12H3) .

Friction coefficient with oil :	0.02
Friction coefficient without oil :	0.38

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 / m ²]
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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