

Database of Steel and Alloy (Marochnik)

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[Home](#) [European steel grades](#) [Steel and Alloy](#) [Search](#) [Equivalent grades](#) [Grading](#) [GOST Standard](#) [Contacts](#)

YOU HERE: [Steel and Alloy](#) -> [Bronze](#)

Characteristics for grade BrO6S6TS3 (БpO6C6Л3).

Grade :	BrO6S6TS3 (БpO6C6Л3)
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 BrO6S6TS3 (БpO6C6Л3)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
cast in a metal mould			175-215	80-195	4-8	8	294	
sand (mould) casting			145-195		8-12		225	

Brinell hardness for BrO6S6TS3 (БpO6C6Л3) , cast in a metal mould	HB 10⁻¹ = 64 - 73.5 MPa
Brinell hardness for BrO6S6TS3 (БpO6C6Л3) , sand (mould) casting	HB 10⁻¹ = 59 MPa

Friction coefficient of the material BrO6S6TS3 (БpO6C6Л3) .

Friction coefficient with oil :	0.009
Friction coefficient without oil :	0.16

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 than 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

[Top](#)

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