

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 BrO3TS7S5N1 (БpO3Ц7C5H1).

Grade :	BrO3TS7S5N1 (БpO3Ц7C5H1) (БpOЦCH3-7-5-1)
Classification :	Tin foundry bronzes
Equivalent grades:	Is absent

Chemical composition in % for grade BrO3TS7S5N1 (БpO3Ц7C5H1)

Fe	Si	Ni	P	Al	Cu	Pb	Zn	Sb	Sn	Impurity	-
max 0.4	max 0.02	0.5 - 2	max 0.05	max 0.02	77.2 - 88	3 - 6	6 - 9.5	max 0.5	2.5 - 4	all 1.3	Si + Al < 0.02 %

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

Mechanical properties under T=20°C for grade BrO3TS7S5N1 (БpO3Ц7C5H1)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 24301-93			180-220		16-20			
cast in a metal mould, GOST 613-79			206		5			Without heat treatment
sand (mould) casting, GOST 613-79			176		8			Without heat treatment

Brinell hardness for BrO3TS7S5N1 (БpO3Ц7C5H1) , Bar GOST 24301-93	HB 10 ⁻¹ = 60 - 65 MPa
Brinell hardness for BrO3TS7S5N1 (БpO3Ц7C5H1) , cast in a metal mould GOST 613-79	HB 10 ⁻¹ = 60 MPa
Brinell hardness for BrO3TS7S5N1 (БpO3Ц7C5H1) , sand (mould) casting GOST 613-79	HB 10 ⁻¹ = 60 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 / 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

[Top](#)

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