

Database of Steel and Alloy (Marochnik)

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Characteristics for grade BrO4TS7S5 (БpO4Ц7C5).

Grade :	BrO4TS7S5 (БpO4Ц7C5) (БpOЦ3.5-7-5)
Classification :	Tin foundry bronzes
Equivalent grades:	Go here

Chemical composition in % for grade BrO4TS7S5 (БpO4Ц7C5)

Fe	Si	P	Al	Cu	Pb	Zn	Sb	Sn	Impurity
max 0.4	max 0.05	max 0.1	max 0.05	77.7 - 87	4 - 7	6 - 9	max 0.5	3 - 5	all 1.3

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

Mechanical properties under T=20°C for grade BrO4TS7S5 (БpO4Ц7C5)

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 613-79			176		4			Without heat treatment
sand (mould) casting, GOST 613-79			147		6			Without heat treatment

Brinell hardness for BrO4TS7S5 (БpO4Ц7C5) (without heat treatment) , GOST 613-79	HB 10 ⁻¹ = 60 MPa
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Equivalent steels for grade BrO4TS7S5 (БpO4Ц7C5)

Warning! Indicated both exact and nearest equivalents.

USA
-
C83800 C84400

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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