

Database of Steel and Alloy (Marochnik)

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Characteristics for grade BrB2.5 (БpБ2.5).

Grade :	BrB2.5 (БpБ2.5)
Classification :	Tin-free pressure-worked bronzes
Equivalent grades:	Is absent

Chemical composition in % for grade BrB2.5 (БpБ2.5)

Fe	Si	Ni	Al	Cu	Pb	Be	Impurity
max 0.15	max 0.15	0.2 - 0.5	max 0.15	96.4 - 97.5	max 0.005	2.3 - 2.6	all 0.5

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

Mechanical properties under T=20°C for grade BrB2.5 (БpБ2.5)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
soft			580		25			
hard			1350		1-2			

Brinell hardness for BrB2.5 (БpБ2.5) , soft	HB 10 ⁻¹ = 130 MPa
Brinell hardness for BrB2.5 (БpБ2.5) , hard	HB 10 ⁻¹ = 360 MPa

Physical properties for grade BrB2.5 (БpБ2.5)

T	E 10 ⁻⁵	α 10 ⁶	λ	ρ	C	R 10 ⁹
Grade	MPa	1/Grade	Watt/(m·Grade)	kg/m ³	J/(kg·Grade)	Ohm·m
20	1.33	16.6		8230		

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]

Physical properties :

- T** - Test temperature , [Grade]
E - Young modulus , [MPa]
 α - Coefficient of linear expansion (range $20^{\circ} - T$) , [1/Grade]
 λ - Thermal (heat) condition coefficient , [Watt/(m·Grade)]
 ρ - Density , [kg/m³]
C - Specific heat (range $20^{\circ} - T$), [J/(kg·Grade)]
R - Electrical resistance , [Ohm·m]

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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