

Database of Steel and Alloy (Marochnik)

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Characteristics for grade BrKHNb (БрХНб).

Grade :	BrKHNb (БрХНб)
Classification :	High-temperature bronzes
Equivalent grades:	Is absent

Chemical composition in % for grade BrKHNb (БрХНб)

Fe	Si	P	Cr	Nb	Cu	Pb	Mg	Zn
max 0.06	max 0.05	max 0.01	0.3 - 0.5	0.1 - 0.4	98.94 - 99.6	max 0.005	max 0.02	max 0.015

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

Technological properties of the material BrKHNb (БрХНб).

Forging temperature :	700 - 950 °C
Annealing temperature :	650 - 700 °C

Physical properties for grade BrKHNb (БрХНб)

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	1.35	17.1	380			18.5

Specification :

Physical properties :

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

Database of steels and alloys (Marochnik) contains information about chemical composition and properties more than 2500 steels and alloys (stainless steel, alloy steel, carbon 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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