

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 68NKHVKTYU (68HXBKTIO).

Grade :	68NKHVKTYU (68HXBKTIO) (68HXBKTIO-BI)
Classification :	Precision alloy for elastic elements
Equivalent grades:	Is absent

Chemical composition in % for grade 68NKHVKTYU (68HXBKTIO)

Fe	C	Si	Mn	Ni	S	P	Cr	Ce	W	V	Co	Nb	Ti	Al	Cu	B	-
max 1	max 0.05	max 0.4	max 0.4	55.402 - 63.5	max 0.01	max 0.015	18 - 20	max 0.05	9 - 10.5	max 0.2	5.5 - 6.7	max 0.2	2.7 - 3.2	1.3 - 1.8	max 0.07	max 0.003	B, Ce - расчет

Mechanical properties under T=20°C for grade 68NKHVKTYU (68HXBKTIO)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
, GOST 10994-74			1375-1570					

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 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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