

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 45KKhNMVT (45KXHMBT).

Grade :	45KKhNMVT (45KXHMBT)
Classification :	Corrosion-resistant alloy
Equivalent grades:	Is absent

Chemical composition in % for grade 45KKhNMVT (45KXHMBT)

Fe	C	Si	Mn	Ni	S	P	Cr	Mo	W	Co	Ti
4 - 6	max 0.05	max 0.5	max 1	15 - 25	max 0.01	max 0.015	18 - 22	3 - 4	3 - 4	44 - 46	0.5 - 3.5

Mechanical properties under T=20°C for grade 45KKhNMVT (45KXHMBT)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Wire heat-treatment, GOST 51396-99			600	275	50			
Wire, GOST 51396-99			1000	830	18			
Wire cold-worked, GOST 51396-99			1310	1170	12			

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 than 2500 steels and alloys (stainless steel, alloy steel, carbene 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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