

Database of Steel and Alloy (Marochnik)

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Characteristics for grade KhN67MVTYu (XH67MBTЮ).

Grade :	KhN67MVTYu (XH67MBTЮ) (ЭИ202 ХН67МБТЮ-ВД ЭП202 ЭП202-ВД)
Classification :	High-temperature or heat-resistant alloy
Equivalent grades:	Is absent

Chemical composition in % for grade KhN67MVTYu (XH67MBTЮ)

Fe	C	Si	Mn	Ni	S	P	Cr	Ce	Mo	W	Ti	Al	B
max 4	max 0.08	max 0.6	max 0.5	60.48 - 68.8	max 0.01	max 0.015	17 - 20	max 0.01	4 - 5	4 - 5	2.2 - 2.8	1 - 1.5	max 0.01

Mechanical properties under T=20°C for grade KhN67MVTYu (XH67MBTЮ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Sheet, GOST 24982-81			930	550	15-18			Guenching and drawing
Bar, GOST 23705-79			930	550	16	18	343	Hardening and ageing

Brinell hardness for KhN67MVTYu (XH67MBTЮ) (quenching, ageing), Bar GOST 23705-79	HB 10 ⁻¹ = 241 - 341 MPa
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Physical properties for grade KhN67MVTYu (XH67MBTЮ)

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						
100		12				
200		12.3				
300		13.5				
400		13.6				
500		13.6				
600		14.4				
700		14.8				
800		15.2				
900		16.2				
T	E 10 ⁻⁵	α 10 ⁶	λ	ρ	C	R 10 ⁹

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]

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/m ³]
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 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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