

Database of Steel and Alloy (Marochnik)

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Characteristics for grade KHN62MVKYU (XH62MBKЮ).

Grade :	KHN62MVKYU (XH62MBKЮ)(XH62BMKЮ ЭИ867 XH62MBKЮ-ВД ЭИ867-ВД)
Classification :	High-temperature or heat-resistant alloy
Equivalent grades:	Is absent

Chemical composition in % for grade KHN62MVKYU (XH62MBKЮ)

Fe	C	Si	Mn	Ni	S	P	Cr	Ce	Mo	W	Co	Al	B
max 4	max 0.1	max 0.6	max 0.3	56.034 - 70	max 0.011	max 0.015	8.5 - 10.5	max 0.02	9 - 11.5	4.3 - 6	4 - 6	4.2 - 4.9	max 0.02

Mechanical properties under T=20°C for grade KHN62MVKYU (XH62MBKЮ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 23705-79			980-1220	760-860	8-24	11-28	147-490	Hardening and ageing

Physical properties for grade KHN62MVKYU (XH62MBKЮ)

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		11.5				
200		12.6				
300		13				
400		13.4				
500		13.7				
600		14				
700		14.3				
800		14.7				
900		15.6				
1000		16.9				
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 / m²]

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/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).
Helpful for specialists in grade technology, structural engineer, mechanical engineer, metallurgy and metal trader

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