

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 1KH2M1 (1X2M1).

Grade :	1KH2M1 (1X2M1)
Classification :	Low alloy structural steel for welding construct
Equivalent grades:	Is absent

Chemical composition in % for grade 1KH2M1 (1X2M1)

C	Si	Mn	Ni	S	P	Cr	Mo	Cu
0.08 - 0.13	0.17 - 0.37	0.3 - 0.6	max 0.5	max 0.035	max 0.035	2 - 2.5	0.9 - 1.1	max 0.3

Mechanical properties under T=20°C for grade 1KH2M1 (1X2M1)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Sheet	30 - 60		450	240	19		800	
Pipe hot strain, GOST 550-75			441	265	20	45	980	

Brinell hardness for 1KH2M1 (1X2M1) , Pipe GOST 550-75	HB 10⁻¹ = 227 MPa
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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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