

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 35KHG2 (35XГ2).

Grade :	35KHG2 (35XГ2)
Classification :	Alloy structural steel
Equivalent grades:	Is absent

Chemical composition in % for grade 35KHG2 (35XГ2)

C	Si	Mn	Ni	S	P	Cr	Cu
0.32 - 0.4	0.17 - 0.37	1.6 - 1.9	max 0.3	max 0.035	max 0.035	0.4 - 0.7	max 0.3

Mechanical properties under T=20°C for grade 35KHG2 (35XГ2)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 4543-71	Ø 25		830	685	12	45	780	Guenching 860°C, oil, Drawing 600°C, water,

Brinell hardness for 35KHG2 (35XГ2) (annealing), GOST 4543	HB 10 ⁻¹ = 229 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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