

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 30KHRA (30XPA).

Grade :	30KHRA (30XPA)
Classification :	Alloy structural steel
Equivalent grades:	Is absent

Chemical composition in % for grade 30KHRA (30XPA)

C	Si	Mn	Ni	S	P	Cr	Cu	B
0.27 - 0.33	0.17 - 0.37	0.5 - 0.8	max 0.3	max 0.025	max 0.025	1 - 1.3	max 0.3	0.001 - 0.005

Mechanical properties under T=20°C for grade 30KHRA (30XPA)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
, GOST 4543-71			1600	1300	9	40	500	Guenching 900°C, oil, Drawing 200°C, air,

Brinell hardness for 30KHRA (30XPA) (annealing), GOST 4543-71	HB 10⁻¹ = 241 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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