

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 19KHGN (19XГН).

Grade :	19KHGN (19XГН)
Classification :	Alloy structural steel
Equivalent grades:	Is absent

Chemical composition in % for grade 19KHGN (19XГН)

C	Si	Mn	Ni	S	P	Cr	Mo	Cu
0.16 - 0.21	0.17 - 0.37	0.7 - 1	0.8 - 1.1	max 0.035	max 0.035	0.8 - 1.1	max 0.1	max 0.3

Mechanical properties under T=20°C for grade 19KHGN (19XГН)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
, GOST 4543-71			1180-1520	930	7		690	Guenching 870°C, oil, Drawing 150 - 180°C, air,

Brinell hardness for 19KHGN (19XГН) (cold-drawn), GOST 10702	HB 10⁻¹ = 217 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 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).
Helpfull for specialists in grade technology, structural engineer, mechanical engineer, metallurgy and metal trader

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