

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 15KH5 (15X5).

Grade :	15KH5 (15X5) (X5)
Classification :	Low alloy high-temperature steel
Equivalent grades:	Is absent

Chemical composition in % for grade 15KH5 (15X5)

C	Si	Mn	Ni	S	P	Cr
max 0.15	max 0.5	max 0.5	max 0.6	max 0.025	max 0.03	4.5 - 6

Mechanical properties under T=20°C for grade 15KH5 (15X5)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Pipe hot strain, GOST 550-75			392	216	24	50	980	
Bar, GOST 20072-74			390	165	24	50	980	Annealing 840 - 860°C, oven,

Brinell hardness for 15KH5 (15X5) (hot-rolled, annealing), GOST 20072-74	HB 10⁻¹ = 217 MPa
Brinell hardness for 15KH5 (15X5), Pipe GOST 550-75	HB 10⁻¹ = 170 MPa

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 / m ²]
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, 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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