

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 15KHGN2TA (15XГН2ТА).

Grade :	15KHGN2TA (15XГН2ТА) (15XГНТА)
Classification :	Alloy structural steel
Equivalent grades:	Is absent

Chemical composition in % for grade 15KHGN2TA (15XГН2ТА)

C	Si	Mn	Ni	S	P	Cr	Ti	Cu
0.13 - 0.18	0.17 - 0.37	0.7 - 1	1.4 - 1.8	max 0.025	max 0.025	0.7 - 1	0.03 - 0.09	max 0.3

Mechanical properties under T=20°C for grade 15KHGN2TA (15XГН2ТА)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 4543-71	Ø 15		930	735	11	55	980	Guenching 960 - 840°C, oil, Drawing 180°C, air,

Brinell hardness for 15KHGN2TA (15XГН2ТА) (annealing), GOST 4543-71	HB 10 ⁻¹ = 269 MPa
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Technological properties for grade 15KHGN2TA (15XГН2ТА)

Flakes :	not predisposed
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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 / m ²]
HB	- Brinell hardness , [MPa]

Weldability :

without limitations	- welding is done without heating and subsequent heat treating
limited weldability	- welding is possible under heating up to 100-120 grade and subsequent heat treating
hard weldability	- obtaining the quality welding needs the additional operations: heating up to 200-300 grade; the heat treating is annealing

Database of steels and alloys (Marochnik) contains information about chemical composition and properties more than 2500 steels and alloys (stainless steel, alloy steel, carbene 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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