

Database of Steel and Alloy (Marochnik)

splat.kharkov.com/en

[Home](#) [European steel grades](#) [Steel and Alloy](#) [Search](#) [Equivalent grades](#) [Grading](#) [GOST Standard](#) [Contacts](#)

YOU HERE: [Steel and Alloy](#) -> [Structural steel](#)

Characteristics for grade 15KHA (15XA).

Grade :	15KHA (15XA)
Classification :	Alloy structural steel
Equivalent grades:	Go here

Chemical composition in % for grade 15KHA (15XA)

C	Si	Mn	Ni	S	P	Cr	Cu
0.12 - 0.17	0.17 - 0.37	0.4 - 0.7	max 0.3	max 0.025	max 0.025	0.7 - 1	max 0.3

Mechanical properties under T=20°C for grade 15KHA (15XA)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Blank, GOST 4543-71	15		700	500	12	45	700	Guenching 880°C, oil, Drawing 180°C, air,

Brinell hardness for 15KHA (15XA) (annealing), GOST 4543-71	HB 10⁻¹ = 179 MPa
Brinell hardness for 15KHA (15XA) (cold-worked), GOST 4543-71	HB 10⁻¹ = 217 MPa

Equivalent steels for grade 15KHA (15XA)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan
-	DIN, WNr	JIS
5115 G50150 G51150	15Cr3	SCr415 SCr415H

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, 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

[Top](#)

© 2003 - 2013 All rights reserved. [About program.](#)

The entire risk as to use of the Database of Steel and Alloy (Marochnik) content is assumed by you the user

