

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 6KHS (6XC).

Grade :	6KHS (6XC)
Classification :	Die tool steel
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Chemical composition in % for grade 6KHS (6XC)

C	Si	Mn	Ni	S	P	Cr	Mo	W	V	Ti	Cu
0.6 - 0.7	0.6 - 1	0.15 - 0.45	max 0.4	max 0.03	max 0.03	1 - 1.3	max 0.2	max 0.2	max 0.15	max 0.03	max 0.3

Temperature of critical points for grade 6KHS (6XC).

$Ac_1 = 770$, $Ac_3(Ac_m) = 830$, $Mn = 250$

Mechanical properties under T=20°C for grade 6KHS (6XC)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Steel			1400	1250	8	30	390	Guenching 880°C, oil, Drawing 500°C, 2h,

Brinell hardness for 6KHS (6XC) (annealing), GOST 5950-2000

HB 10 ⁻¹ = 229 MPa

Equivalent steels for grade 6KHS (6XC)

Warning! Indicated both exact and nearest equivalents.

Germany
DIN,WNr
60MnSi4

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]

(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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