

Database of Steel and Alloy (Marochnik)

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

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

Characteristics for grade 6KHVG (6XBГ).

Grade :	6KHVG (6XBГ)
Classification :	Die tool steel
Equivalent grades:	Is absent

Chemical composition in % for grade 6KHVG (6XBГ)

C	Si	Mn	Ni	S	P	Cr	W	Cu
0.55 - 0.7	0.1 - 0.4	0.9 - 1.2	max 0.4	max 0.03	max 0.03	0.5 - 0.8	0.5 - 0.8	max 0.3

Temperature of critical points for grade 6KHVG (6XBГ).

$A_{c1} = 780$, $A_{c3}(A_{cm}) = 795$, $A_{r3}(A_{rcm}) = 695$, $A_{r1} = 675$, $Mn = 280$

Mechanical properties under T=20°C for grade 6KHVG (6XBГ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Steel			1570	1450	10	38	460	Guenching 870°C, oil, Drawing 450°C, 2h,

Brinell hardness for 6KHVG (6XBГ) (annealing) , GOST 5950-2000	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 then 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

[Top](#)

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