

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 2KH6V8M2K8 (2X6B8M2K8).

Grade :	2KH6V8M2K8 (2X6B8M2K8)
Classification :	Die tool steel
Equivalent grades:	Is absent

Chemical composition in % for grade 2KH6V8M2K8 (2X6B8M2K8)

C	Si	Mn	S	P	Cr	Mo	W	V	Co
0.22 - 0.3	0.3 - 0.6	0.15 - 0.4	max 0.03	max 0.03	6.5 - 7	1.8 - 2.3	7 - 8	0.1 - 0.25	7.5 - 8.5

Temperature of critical points for grade 2KH6V8M2K8 (2X6B8M2K8).

$Ac_1 = 827$, $Ac_3(Ac_m) = 890$, $Mn = 180$

Mechanical properties under T=20°C for grade 2KH6V8M2K8 (2X6B8M2K8)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bars	15		1750	1450	2	6		Guenching 1180°C, oil, Drawing

Brinell hardness for 2KH6V8M2K8 (2X6B8M2K8) (high tempering) ,	HB 10 ⁻¹ = 250 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

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