

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 8KH4V2MFS2 (8X4B2MΦC2).

Grade :	8KH4V2MFS2 (8X4B2MΦC2) (ЭП761)
Classification :	Alloy tool steel
Equivalent grades:	Is absent

Chemical composition in % for grade 8KH4V2MFS2 (8X4B2MΦC2)

C	Si	Mn	Ni	S	P	Cr	Mo	W	V	Cu
0.8 - 0.9	1.7 - 2	0.2 - 0.5	max 0.4	max 0.03	max 0.03	4.5 - 5.1	0.8 - 1.1	1.8 - 2.3	1.1 - 1.4	max 0.3

Temperature of critical points for grade 8KH4V2MFS2 (8X4B2MΦC2).

$Ac_1 = 840$, $Ac_3(Ac_m) = 880$, $Ar_1 = 785$, $Mn = 150$

Mechanical properties under T=20°C for grade 8KH4V2MFS2 (8X4B2MΦC2)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
				2700-2800				Guenching and drawing

Brinell hardness for 8KH4V2MFS2 (8X4B2MΦC2) (annealing), GOST 5950-2000	HB 10 ⁻¹ = 255 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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