

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 5KHV2SF (5XB2CΦ).

Grade :	5KHV2SF (5XB2CΦ)
Classification :	Alloy tool steel
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Chemical composition in % for grade 5KHV2SF (5XB2CΦ)

C	Si	Mn	Ni	S	P	Cr	W	V	Cu
0.45 - 0.55	0.8 - 1.1	0.15 - 0.45	max 0.4	max 0.03	max 0.03	0.9 - 1.2	1.8 - 2.3	0.15 - 0.3	max 0.3

Mechanical properties under T=20°C for grade 5KHV2SF (5XB2CΦ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
			1700	1600	6	15	280	Guenching 880°C, oil, Drawing 450°C, 2h,

Brinell hardness for 5KHV2SF (5XB2CΦ) (annealing), GOST 5950-2000	HB 10⁻¹ = 229 MPa
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Equivalent steels for grade 5KHV2SF (5XB2CΦ)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	France	England	European	Italy	Spain	Sweden	Bulgaria	Hungary	Poland	Romania	Czechia
-	DIN, WNr	AFNOR	BS	EN	UNI	UNE	SS	BDS	MSZ	PN	STAS	CSN
S1 T41901	1.2542 1.2550 45WCrV17 45WCrV7 60WCrV7	45WCrV8	2542 BS1	45WCrV8	45WCrV8KU	45WCrSi8 F.5241	2710	5ChW2SF	W5	NZ2	45VSiCrW20	19732

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 / m ²]
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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