

Database of Steel and Alloy (Marochnik)

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Characteristics for grade KHV4F (XB4Φ).

Grade :	KHV4F (XB4Φ)
Classification :	Alloy tool steel
Equivalent grades:	Go here

Chemical composition in % for grade KHV4F (XB4Φ)

C	Si	Mn	Ni	S	P	Cr	Mo	W	V	Cu
1.25 - 1.45	0.15 - 0.35	0.15 - 0.4	max 0.35	max 0.03	max 0.03	0.4 - 0.7	max 0.5	3.5 - 4.3	0.15 - 0.3	max 0.3

Temperature of critical points for grade KHV4F (XB4Φ).

Ac₁ = 750 - 760

Brinell hardness for KHV4F (XB4Φ) (annealing) ,	HB 10⁻¹ = 255 MPa
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Technological properties for grade KHV4F (XB4Φ)

Weldability:	is not used.
Temper brittleness:	weakly predisposed

Equivalent steels for grade KHV4F (XB4Φ)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	Czechia	Austria
-	DIN, WNr	JIS	CSN	ONORM
F2	X130W5	SKS11	19714	K400

Specification :

Weldability :

- without limitations** - welding is done without heating and subsequent heat treating
- limited weldability** - welding is possible under heating up to 100-120 grade and subsequent heat treating
- hard weldability** - obtaining the quality welding needs the additional operations: heating up to 200-300 grade; the heat treating ia annealing

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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