

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 4KH3VMF (4X3BMΦ).

Grade :	4KH3VMF (4X3BMΦ) (3И2)
Classification :	Die tool steel
Equivalent grades:	Go here

Chemical composition in % for grade 4KH3VMF (4X3BMΦ)

C	Si	Mn	Ni	S	P	Cr	Mo	W	V	Cu
0.4 - 0.48	0.6 - 0.9	0.3 - 0.6	max 0.4	max 0.03	max 0.03	2.8 - 3.5	0.4 - 0.6	0.6 - 1	0.6 - 0.9	max 0.3

Temperature of critical points for grade 4KH3VMF (4X3BMΦ).

$A_{c1} = 800$, $A_{c3}(A_{cm}) = 850$, $A_{r3}(A_{rcm}) = 760$, $A_{r1} = 730$, $Mn = 230$

Mechanical properties under T=20°C for grade 4KH3VMF (4X3BMΦ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bars	10		1720	1520			560	Guenching 1040 - 1060°C, oil, Drawing 560 - 580°C, Drawing 530 - 570°C,

Brinell hardness for 4KH3VMF (4X3BMΦ) (annealing), GOST 5950-2000

HB 10 ⁻¹ = 241 MPa

Equivalent steels for grade 4KH3VMF (4X3BMΦ)

Warning! Indicated both exact and nearest equivalents.

USA
-
H10 T20810

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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