

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 4KH2NMF (4X2HMΦ).

Grade :	4KH2NMF (4X2HMΦ)
Substitute:	38X2HMΦ
Classification :	Die tool steel
Equivalent grades:	Is absent

Chemical composition in % for grade 4KH2NMF (4X2HMΦ)

C	Si	Mn	Ni	S	P	Cr	Mo	V
0.36 - 0.42	0.17 - 0.37	0.5 - 0.8	0.8 - 1.1	max 0.03	max 0.03	2 - 2.5	0.4 - 0.6	0.15 - 0.2

Temperature of critical points for grade 4KH2NMF (4X2HMΦ).

$Ac_1 = 760$, $Ac_3(Ac_m) = 820$

Brinell hardness for 4KH2NMF (4X2HMΦ) (normalize) ,

HB 10⁻¹ = 321 - 364 MPa

Technological properties for grade 4KH2NMF (4X2HMΦ)

Weldability:	hard weldability.
Flakes :	weakly predisposed
Temper brittleness:	weakly predisposed

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 is annealing

Database of steels and alloys (Marochnik) contains information about chemical composition and properties more than 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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