

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 5KH2MNF (5X2MHΦ).

Grade :	5KH2MNF (5X2MHΦ) (ДИ32)
Classification :	Die tool steel
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Chemical composition in % for grade 5KH2MNF (5X2MHΦ)

C	Si	Mn	Ni	S	P	Cr	Mo	V	Cu
0.46 - 0.53	0.1 - 0.4	0.4 - 0.7	1.2 - 1.6	max 0.03	max 0.03	1.5 - 2	0.8 - 1.1	0.3 - 0.5	max 0.3

Temperature of critical points for grade 5KH2MNF (5X2MHΦ).

$A_{c1} = 740$, $A_{c3}(A_{cm}) = 815$, $A_{r3}(A_{rcm}) = 730$, $A_{r1} = 650$, $Mn = 210$

Mechanical properties under T=20°C for grade 5KH2MNF (5X2MHΦ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Blank	15		1750	1500	10	40	550	Guenching Cooling oil,

Brinell hardness for 5KH2MNF (5X2MHΦ) (annealing), GOST 5950-2000

HB 10 ⁻¹ = 255 MPa

Equivalent steels for grade 5KH2MNF (5X2MHΦ)

Warning! Indicated both exact and nearest equivalents.

Germany
DIN,WNr
57NiCrMoV7-7 X38CrMoV5-1

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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