

Database of Steel and Alloy (Marochnik)

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[Home](#) [European steel grades](#) [Steel and Alloy](#) [Search](#) [Equivalent grades](#) [Grading](#) [GOST Standard](#) [Contacts](#)

YOU HERE: [Steel and Alloy](#) -> [Structural steel](#)

Characteristics for grade 38KH2NMF (38X2HMΦ).

Grade :	38KH2NMF (38X2HMΦ)
Substitute:	34XH1M, 40XH2MA, 34XH3M
Classification :	Alloy structural steel
Equivalent grades:	Is absent

Chemical composition in % for grade 38KH2NMF (38X2HMΦ)

C	Si	Mn	Ni	S	P	Cr	Mo	V
0.32 - 0.42	0.17 - 0.37	0.5 - 0.8	0.6 - 0.9	max 0.03	max 0.03	1.8 - 2.3	0.2 - 0.3	0.08 - 0.15

Mechanical properties under T=20°C for grade 38KH2NMF (38X2HMΦ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Forging	to 300		850	700	12	38	500	Guenching and drawing

Brinell hardness for 38KH2NMF (38X2HMΦ) (quenching, tempering) ,	HB 10⁻¹ = 223 - 262 MPa
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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

[Top](#)

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