

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 10KH2M (10X2M).

Grade :	10KH2M (10X2M)
Classification :	Alloy structural steel
Equivalent grades:	Go here

Chemical composition in % for grade 10KH2M (10X2M)

C	Si	Mn	Ni	S	P	Cr	Mo
0.08 - 0.12	0.17 - 0.37	0.4 - 0.7	max 0.3	max 0.02	max 0.02	2 - 2.5	0.6 - 0.8

Mechanical properties under T=20°C for grade 10KH2M (10X2M)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Sheet, GOST 5520-79			390-590	295	20		980	

Equivalent steels for grade 10KH2M (10X2M)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Sweden	Bulgaria	Hungary	Poland	Romania	Czechia
-	DIN, WNr	JIS	AFNOR	BS	EN	UNI	SS	BDS	MSZ	PN	STAS	CSN
F22	10CrMo9-10 GS-12CrMo9-10	SFVAF22A	10CD9-10 11CrMo9-10	622-490	1.7380 10CrMo9-10	12CrMo9-10	2218	12Ch2M	2Cr10Mo45.47	10H2M	10CrMo10 12MoCr22	15313

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 than 2500 steels and alloys (stainless steel, alloy steel, carbon 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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