

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 20KHM (20XM).

Grade :	20KHM (20XM)
Classification :	Alloy structural steel
Equivalent grades:	Go here

Chemical composition in % for grade 20KHM (20XM)

C	Si	Mn	Ni	S	P	Cr	Mo	Cu
0.15 - 0.25	0.17 - 0.37	0.4 - 0.7	max 0.3	max 0.035	max 0.035	0.8 - 1.1	0.15 - 0.25	max 0.3

Mechanical properties under T=20°C for grade 20KHM (20XM)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 4543-71	Ø 15		780	590	12	50	880	Guenching and drawing

Brinell hardness for 20KHM (20XM) (annealing), GOST 4543-71

HB 10⁻¹ = 179 MPa

Equivalent steels for grade 20KHM (20XM)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Belgium	Spain	China	Sweden	Bulgaria	Hungary	Poland	Romania	Czechia	Finland	Austria	Aus
-	DIN, WNr	JIS	AFNOR	BS	EN	UNI	NBN	UNE	GB	SS	BDS	MSZ	PN	STAS	CSN	SFS	ONORM	/
4118	1.7218	SCCrM1	18CrMo4	25CrMo4	1.7218	18CrMo4	25CrMo4	25CrMo4	30CrMo	2225	20ChM	25CrMo4	18HGM	26MoCr11	15124	G-	25CrMo5S	41
4130	18CrMo4	SCM418	25CD4	708A25	1.7243	25CrMo4		26CrMo4	ML30CrMo		25ChML	MCrMo	20HM	T30CrMo3	15130	25CrMo4	BOHLERV340	41
G41300	24CrMo5	SCM420	25CD4FF	708H20	1.7320	25CrMo4KB		30CrMo4-1	ML30CrMoA		25CrMo4		25HM					
H41300	25CrMo4	SCM420H	25CrMo4		18CrMo4			AM25CrMo4					L25HM					
	GS-25CrMo4	SCM430			20MoCr3			AM26CrMo4										
		SCM822H			25CrMo4			F.1256										
								F.222										
								F.8372										
								F.8830										

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).
 Helpful for specialists in grade technology, structural engineer, mechanical engineer, metallurgy and metal trader

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