

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 38KHGNM (38XГНМ).

Grade :	38KHGNM (38XГНМ)
Classification :	Alloy structural steel
Equivalent grades:	Go here

Chemical composition in % for grade 38KHGNM (38XГНМ)

C	Si	Mn	Ni	S	P	Cr	Mo	Cu
0.37 - 0.43	0.17 - 0.37	0.5 - 0.8	0.4 - 0.7	max 0.035	max 0.035	0.4 - 0.6	0.15 - 0.25	max 0.3

Mechanical properties under T=20°C for grade 38KHGNM (38XГНМ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Steel cold-drawn, GOST 10702-78			686			60		Annealing

Equivalent steels for grade 38KHGNM (38XГНМ)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	Italy	Belgium	Spain
-	DIN, WNr	JIS	AFNOR	BS	UNI	NBN	UNE
8640 8740	1.6546 40NiCrMo2-2	SNM240	40NCD2	3111-Type7	40NiCrMo2	40NiCrMo2	40NiCrMo2 40NiCrMo2DF F.1204 F.1205

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 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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