

Database of Steel and Alloy (Marochnik)

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Characteristics for grade AS38KHGM (AC38XГМ).

Grade :	AS38KHGM (AC38XГМ)
Classification :	Rolled steel of improved and high cutting machinability
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Chemical composition in % for grade AS38KHGM (AC38XГМ)

C	Si	Mn	Ni	S	P	Cr	Mo	Cu	Pb	-
0.34 - 0.4	0.17 - 0.37	0.6 - 0.9	max 0.3	max 0.03	max 0.035	0.8 - 1.1	0.15 - 0.25	max 0.3	0.15 - 0.3	S+P <0.06

Mechanical properties under T=20°C for grade AS38KHGM (AC38XГМ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Blank, GOST 1414-75	25		950	800	11		800	Guenching 860 - 880°C, oil, Drawing 580 - 620°C, air,

Brinell hardness for AS38KHGM (AC38XГМ) (hot-rolled, annealing), GOST 1414-75	HB 10 ⁻¹ = 241 MPa
Brinell hardness for AS38KHGM (AC38XГМ) (cold-drawn, cold-worked), GOST 1414-75	HB 10 ⁻¹ = 269 MPa
Brinell hardness for AS38KHGM (AC38XГМ) (high tempering), GOST 1414-75	HB 10 ⁻¹ = 255 MPa

Equivalent steels for grade AS38KHGM (AC38XГМ)

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
-	DIN, WNr	JIS	AFNOR	BS	EN	UNI	NBN	UNE	GB	SS	BDS	MSZ	PN	STAS	CSN	SFS	ONORM
4135 4137 G41350 G41370	1.7220 34CrMo4 GS- 34CrMo4	SCCrM3 SCM432 SCM435 SCM435H	34CD4FF 34CrMo4 34CrMo4RR 35CD4	34CrMo4 708A37	34CrMo4 34CrMo4KD	34CrMo4 34CrMo4KB 35CrMo4 35CrMo4F	34CrMo4	34CrMo4 35CrMo4 35CrMo4DF AM34CrMo4 F.1250 F.1254 F.8231 F.8331	35CrMo ML35CrMo ZG35CrMo	2234	30ChML 34CrMo4 35ChM	34CrMo4 CMo3Z	35HM 35HMA L35HM	34MoCr11 34MoCr11AS 34MoCr11q	15131	G- 34CrMo4	BOHLERV33

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, carbene 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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