

Database of Steel and Alloy (Marochnik)

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Characteristics for grade AS30KHM (AC30XM).

Grade :	AS30KHM (AC30XM)
Classification :	Rolled steel of improved and high cutting machinability
Equivalent grades:	Is absent

Chemical composition in % for grade AS30KHM (AC30XM)

C	Si	Mn	Ni	S	P	Cr	Mo	Cu	Pb	-
0.27 - 0.33	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	0.15 - 0.3	S+P <0.06

Mechanical properties under T=20°C for grade AS30KHM (AC30XM)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Blank, GOST 1414-75	15		880	735	12		980	Guenching 860 - 880°C, oil, Drawing 510 - 560°C, air,
Rolled stock cold-drawn, GOST 1414-75			780	630	12			

Brinell hardness for AS30KHM (AC30XM) (hot-rolled, annealing), GOST 1414-75	HB 10 ⁻¹ = 223 MPa
Brinell hardness for AS30KHM (AC30XM) (high tempering), GOST 1414-75	HB 10 ⁻¹ = 241 MPa
Brinell hardness for AS30KHM (AC30XM) (cold-drawn, cold-worked), GOST 1414-75	HB 10 ⁻¹ = 269 MPa

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

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