

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 16KH11N2V2MF (16X11H2B2MΦ).

Grade :	16KH11N2V2MF (16X11H2B2MΦ) (ЭИ962А 2Х12Н2ВМΦ)
Classification :	High alloy high-temperature steel
Equivalent grades:	Is absent

Chemical composition in % for grade 16KH11N2V2MF (16X11H2B2MΦ)

C	Si	Mn	Ni	S	P	Cr	Mo	W	V
0.14 - 0.18	max 0.6	max 0.6	1.4 - 1.8	max 0.025	max 0.03	10 - 12	0.35 - 0.5	1.6 - 2	0.18 - 0.3

Mechanical properties under T=20°C for grade 16KH11N2V2MF (16X11H2B2MΦ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Sheet thin, GOST 5582-75			830		22			Annealing 760 - 780°C,
Sheet thin, GOST 5582-75			1320		10			Guenching 960 - 1000°C, Cooling air, Drawing 240 - 400°C, Cooling air,

Brinell hardness for 16KH11N2V2MF (16X11H2B2MΦ) , Bar GOST 5949-75	HB 10⁻¹ = 285 MPa
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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, carbone 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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