

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 11KH11N2V2MF (11X11H2B2MΦ).

Grade :	11KH11N2V2MF (11X11H2B2MΦ) (X12H2BMΦ ЭИ962)
Classification :	High alloy high-temperature steel
Equivalent grades:	Is absent

Chemical composition in % for grade 11KH11N2V2MF (11X11H2B2MΦ)

C	Si	Mn	Ni	S	P	Cr	Mo	W	V
0.09 - 0.13	max 0.6	max 0.6	1.5 - 1.8	max 0.025	max 0.03	10.5 - 12	0.35 - 0.5	1.6 - 2	0.18 - 0.3

Mechanical properties under T=20°C for grade 11KH11N2V2MF (11X11H2B2MΦ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 5949-75			835-980	735-835	10-12	50-55	590-690	
Sheet thin, GOST 5582-75			830		22			Annealing 760 - 780°C,

Brinell hardness for 11KH11N2V2MF (11X11H2B2MΦ) (annealing), 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 then 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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