

Database of Steel and Alloy (Marochnik)

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Characteristics for grade KHN38VT (XH38BT).

Grade :	KHN38VT (XH38BT) (ЭИ703)
Classification :	High-temperature or heat-resistant alloy
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Chemical composition in % for grade KHN38VT (XH38BT)

Fe	C	Si	Mn	Ni	S	P	Cr	Ce	W	Ti	Al
31.08 - 41.44	0.06 - 0.12	max 0.8	max 0.7	35 - 39	max 0.02	max 0.03	20 - 23	max 0.05	2.8 - 3.5	0.7 - 1.2	max 0.5

Mechanical properties under T=20°C for grade KHN38VT (XH38BT)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Sheet, GOST 24982-81			800-830		35			Guenching

Equivalent steels for grade KHN38VT (XH38BT)

Warning! Indicated both exact and nearest equivalents.

USA	Germany
-	DIN,WNr
N08825	NiCr21Mo

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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