

Database of Steel and Alloy (Marochnik)

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Characteristics for grade KhN77TYU (XH77TЮ).

Grade :	KhN77TYU (XH77TЮ) (ЭИ437А)
Classification :	High-temperature or heat-resistant alloy
Equivalent grades:	Is absent

Chemical composition in % for grade KhN77TYU (XH77TЮ)

Fe	C	Si	Mn	Ni	S	P	Cr	Ce	Ti	Al	B	Pb
max 1	max 0.07	max 0.6	max 0.4	70.083 - 77.4	max 0.007	max 0.015	19 - 22	max 0.02	2.4 - 2.8	0.6 - 1	max 0.003	max 0.001

Mechanical properties under T=20°C for grade KhN77TYU (XH77TЮ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 23705-79			610		5	12		Hardening and ageing

Brinell hardness for KhN77TYU (XH77TЮ) , Bar GOST 23705-79	HB 10 ⁻¹ = 255 - 321 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 / m²]
- 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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