

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 10KH13SYU (10X13CЮ).

Grade :	10KH13SYU (10X13CЮ)(1X12CЮ ЭИ404)
Classification :	High alloy high-temperature steel
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Chemical composition in % for grade 10KH13SYU (10X13CЮ)

C	Si	Mn	S	P	Cr	Al
0.07 - 0.12	1.2 - 2	max 0.8	max 0.025	max 0.03	12 - 14	1 - 1.8

Mechanical properties under T=20°C for grade 10KH13SYU (10X13CЮ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 5949-75			490	345	15	60		Annealing 800 - 850°C, air,

Equivalent steels for grade 10KH13SYU (10X13CЮ)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Spain	China	Bulgaria	Hungary	Poland	Czechia
-	DIN, WNr	JIS	AFNOR	BS	EN	UNI	UNE	GB	BDS	MSZ	PN	CSN
405 MT405 S40500	1.4724 X10CrAl13 X7CrAl13 X10CrAlSi13	SUS405	Z10C13 Z13C13	403S17 X10CrAlSi13	1.4724 X10CrAl13 X10CrAlSi13 X10CrSiAl13	X10CrAl12	F.311 F.3152 X10CrAl13 X10CrAlSi13	OCr13Al	Ch13SJ _u	H12	H13JS	17125

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, 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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