

Database of Steel and Alloy (Marochnik)

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Characteristics for grade U8GA (Y8ГA).

Grade :	U8GA (Y8ГA)
Classification :	Carbon tool steel
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Chemical composition in % for grade U8GA (Y8ГA)

C	Si	Mn	Ni	S	P	Cr	Cu
0.8 - 0.9	0.17 - 0.33	0.33 - 0.58	max 0.25	max 0.018	max 0.025	max 0.2	max 0.25

Mechanical properties under T=20°C for grade U8GA (Y8ГA)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Band annealed , GOST 2283-79			740		10			
Band cold-worked , GOST 2283-79			740-1180					

Brinell hardness for U8GA (Y8ГA) (annealing) , GOST 1435-99	HB 10⁻¹ = 187 MPa
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Equivalent steels for grade U8GA (Y8ГA)

Warning! Indicated both exact and nearest equivalents.

Germany	Spain	China	Romania
DIN, WNr	UNE	GB	STAS
C85W	F.510A	T8Mn T8MnA	OSC8M

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, carbon 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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