

Database of Steel and Alloy (Marochnik)

splat.kharkov.com/en

[Home](#) [European steel grades](#) [Steel and Alloy](#) [Search](#) [Equivalent grades](#) [Grading](#) [GOST Standard](#) [Contacts](#)

YOU HERE: [Steel and Alloy](#) -> [Structural steel](#)

Characteristics for grade 20YuA (20ЮА).

Grade :	20YuA (20ЮА)
Classification :	High quality structural carbon steel
Equivalent grades:	Is absent

Chemical composition in % for grade 20YuA (20ЮА)

C	Si	Mn	Ni	S	P	Cr	Al	Cu
0.16 - 0.22	max 0.07	0.25 - 0.45	max 0.15	max 0.025	max 0.02	max 0.1	0.02 - 0.08	max 0.2

Mechanical properties under T=20°C for grade 20YuA (20ЮА)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Sheet heat-treatment, GOST 4041-71	4 - 14		340-490		28			

Brinell hardness for 20YuA (20ЮА) , Sheet GOST 4041-71	HB 10⁻¹ = 127 MPa
---	-------------------------------------

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

[Top](#)

© 2003 - 2013 All rights reserved. [About program.](#)

The entire risk as to use of the Database of Steel and Alloy (Marochnik) content is assumed by you the user

