

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 20G2 (20Г2).

Grade :	20G2 (20Г2)
Classification :	Alloy structural steel
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Chemical composition in % for grade 20G2 (20Г2)

C	Si	Mn	Ni	S	P	Cr	Cu
0.18 - 0.26	0.17 - 0.37	1.3 - 1.6	max 0.25	max 0.035	max 0.035	max 0.25	max 0.2

Mechanical properties under T=20°C for grade 20G2 (20Г2)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Steel cold-drawn n , GOST 10702-78			490-686					

Brinell hardness for 20G2 (20Г2) (hot-rolled, annealing) ,	HB 10⁻¹ = 187 MPa
Brinell hardness for 20G2 (20Г2) , Bar GOST 10702-78	HB 10⁻¹ = 179 MPa

Equivalent steels for grade 20G2 (20Г2)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	Spain	South Korea
-	DIN, WNr	JIS	UNE	KS
G15240 H15240	22Mn6	SMn420 SMn420H	F.120L	SMn420 SMn420H

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, 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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