

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 55S2GF (55C2ГФ).

Grade :	55S2GF (55C2ГФ)
Classification :	Spring structural steel
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Chemical composition in % for grade 55S2GF (55C2ГФ)

C	Si	Mn	Ni	S	P	Cr	V	Cu
0.52 - 0.6	1.5 - 2	0.95 - 1.25	max 0.25	max 0.035	max 0.035	max 0.3	0.1 - 0.15	max 0.2

Mechanical properties under T=20°C for grade 55S2GF (55C2ГФ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 14959-79	to Ø 80		1570	1373	6	25		Guenching 870°C, oil, Drawing 470°C,

Brinell hardness for 55S2GF (55C2ГФ) (without heat treatment) , Rolled stock GOST 14959-79	HB 10 ⁻¹ = 302 MPa
Brinell hardness for 55S2GF (55C2ГФ) (heat treatment) , Rolled stock GOST 14959-79	HB 10 ⁻¹ = 269 MPa

Equivalent steels for grade 55S2GF (55C2ГФ)

Warning! Indicated both exact and nearest equivalents.

Bulgaria
BDS
55S2GF

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, 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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