

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 25G (25Г).

Grade :	25G (25Г)
Classification :	Alloy structural steel
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Chemical composition in % for grade 25G (25Г)

C	Si	Mn	Ni	S	P	Cr	Cu
0.22 - 0.3	0.17 - 0.37	0.7 - 1	max 0.3	max 0.035	max 0.035	max 0.3	max 0.3

Temperature of critical points for grade 25G (25Г).

$Ac_1 = 723$, $Ac_3(Ac_m) = 820$

Mechanical properties under T=20°C for grade 25G (25Г)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Blank, GOST 4543-71	to 25		500	300	22	50	880	Guenching 880°C, water, Drawing 560°C, air,

Brinell hardness for 25G (25Г) (annealing), GOST 4543-71	HB 10 ⁻¹ = 197 MPa
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Equivalent steels for grade 25G (25Г)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	England	China
-	DIN, WNr	JIS	BS	GB
1026 1026H 1029 1525 G10260 G10290 G15250	GS-Ck25	S25C STB410	070M26 080A25	25 25MnG 25Z

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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