

Database of Steel and Alloy (Marochnik)

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Characteristics for grade AS35G2 (AC35Г2).

Grade :	AS35G2 (AC35Г2)
Classification :	Rolled steel of improved and high cutting machinability
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Chemical composition in % for grade AS35G2 (AC35Г2)

C	Si	Mn	Ni	S	P	Cr	Cu	Pb
0.32 - 0.39	0.17 - 0.37	1.35 - 1.65	max 0.25	0.08 - 0.13	max 0.04	max 0.25	max 0.25	0.15 - 0.3

Mechanical properties under T=20°C for grade AS35G2 (AC35Г2)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Rolled stock cold-drawn, GOST 1414-75	to 35		740	590	14			

Brinell hardness for AS35G2 (AC35Г2) (hot-rolled, annealing), GOST 1414-75	HB 10⁻¹ = 229 MPa
Brinell hardness for AS35G2 (AC35Г2), Rolled stock GOST 1414-75	HB 10⁻¹ = 277 MPa

Equivalent steels for grade AS35G2 (AC35Г2)

Warning! Indicated both exact and nearest equivalents.

Germany	France	England	European	Italy	Spain	Bulgaria
DIN, WNr	AFNOR	BS	EN	UNI	UNE	BDS
36SMnPb14	36SMnPb14	36SMnPb14	1.0765 36SMnPb14	CF35SMnPb10	36SMnPb14	36SMnPb14

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 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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