

Database of Steel and Alloy (Marochnik)

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Characteristics for grade A35E (A35E).

Grade :	A35E (A35E)
Classification :	Rolled steel of improved and high cutting machinability
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Chemical composition in % for grade A35E (A35E)

C	Si	Mn	Ni	S	P	Cr	Cu	Se
0.32 - 0.4	0.17 - 0.37	0.5 - 0.8	max 0.25	0.06 - 0.12	max 0.04	max 0.25	max 0.25	0.04 - 0.1

Mechanical properties under T=20°C for grade A35E (A35E)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
			540	320	20			

Brinell hardness for A35E (A35E) (hot-rolled) ,	HB 10⁻¹ = 187 MPa
Brinell hardness for A35E (A35E) (cold-drawn, cold-worked) ,	HB 10⁻¹ = 229 MPa

Equivalent steels for grade A35E (A35E)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	France	England	Sweden	Bulgaria	Hungary	Poland	Czechia
-	DIN, WNr	AFNOR	BS	SS	BDS	MSZ	PN	CSN
G11400	35S20	35MF6	708H20	1957	A35	ANS1	A35	11140

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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