

Database of Steel and Alloy (Marochnik)

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Characteristics for grade AS14 (AC14).

Grade :	AS14 (AC14)
Classification :	Rolled steel of improved and high cutting machinability
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Chemical composition in % for grade AS14 (AC14)

C	Si	Mn	Ni	S	P	Cr	Cu	Pb
0.1 - 0.17	max 0.12	1 - 1.3	max 0.25	0.15 - 0.3	max 0.1	max 0.25	max 0.25	0.15 - 0.3

Mechanical properties under T=20°C for grade AS14 (AC14)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Rolled stock hotrolled, GOST 1414-75			410		20	30		
Rolled stock, GOST 1414-75			490	390	10			

Brinell hardness for AS14 (AC14) , Rolled stock GOST 1414-75	HB 10⁻¹ = 170 MPa
Brinell hardness for AS14 (AC14) , Rolled stock GOST 1414-75	HB 10⁻¹ = 207 MPa

Equivalent steels for grade AS14 (AC14)

Warning! Indicated both exact and nearest equivalents.

Germany
DIN, WNr
9SMnPb28

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 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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