

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 18kp (18кп).

Grade :	18kp (18кп)
Classification :	High quality structural carbon steel
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Chemical composition in % for grade 18kp (18кп)

C	Si	Mn	Ni	S	P	Cr	Cu	As
0.12 - 0.2	max 0.06	0.3 - 0.5	max 0.3	max 0.04	max 0.035	max 0.15	max 0.2	max 0.08

Mechanical properties under T=20°C for grade 18kp (18кп)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Rolled stock hotrolled	4 - 20		365-490	235	26			As-delivered state

Equivalent steels for grade 18kp (18кп)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	France	England	Canada	European	Italy	Belgium	Spain	China	Sweden	Bulgaria	Hungary	Poland	Czechia
-	DIN,WNr	AFNOR	BS	HG	EN	UNI	NBN	UNE	GB	SS	BDS	MSZ	PN	CSN
1015 K02502	1.0036 Fe360B S235JRG1	S235JRG1	Fe360B S235JRG1	230G	1.0036 Fe37-3FN Fe37-3FU Fe37B1FU Fe37B3FN Fe37B3FU S235JRG1	Fe360BFU S235JRG1	FE360B	AE235B S235JR S235JRG1	A3 Q235A Q235A-F Q235B Q235B-F	1311 1312	S235JRG1	Fe235B/FU S235JRG1	St3SX	11373

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 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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