

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 16D (16Д).

Grade :	16D (16Д)(16Д-Ш)
Classification :	Low alloy structural steel for welding construct
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Chemical composition in % for grade 16D (16Д)

C	Si	Mn	Ni	S	P	Cr	N	Cu	As
0.1 - 0.18	0.12 - 0.25	0.4 - 0.7	max 0.3	max 0.04	max 0.035	max 0.3	max 0.008	0.2 - 0.35	max 0.08

Mechanical properties under T=20°C for grade 16D (16Д)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Roller stock, GOST 6713-91			375-510	215-235	26		340-390	

Equivalent steels for grade 16D (16Д)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	Canada	European	Italy	Belgium	Spain	China	Sweden	Bulgaria	Hungary	Poland	Romania	Czechia	Finland
-	DIN, WNr	JIS	AFNOR	BS	HG	EN	UNI	NBN	UNE	GB	SS	BDS	MSZ	PN	STAS	CSN	SFS
A284Gr.D	1.0028	SS330	A34-2	1449-	230G	1.0036	Fe330	FE360B	AE235B	A3	1311	BS13kp	Fe235B/FU	St3SX	OL37.4	11343	RACOLD215S
A570Gr.33,36	1.0036		E24-3	37/23CR		Fe37-3FN	Fe360B	FED1FF	AE235D	Q235A	1312	Ew-08AA	Fe235D	St3W		11373	
A573Gr.58	1.0116		E24-4	37/23HR		Fe37-3FU	Fe360BFU		Fe360D1FF	Q235A-	1313	S235J2G3	S235J2G3			11378	
A611(A)	Fe360B		S235J0	4360-40D		Fe37B1	Fe360C		S235J2G3	F		S235JRG1	S235JRG1				
A611Gr.C	Fe360D1		S235J2G3	CEW2BK		Fe37B1FN	Fe360CFN		S235JR	Q235A-		WS13kp					
K01804	S235J2G3		S235J2G4	Fe360B		Fe37B1FU	Fe360D		S235JRG1	Z							
K02001	S235JRG1		S235JRG1	Fe360D1FF		Fe37B3FN	Fe360DFF			Q235B							
K02301	St34-2			HFS4		Fe37B3FU	Fe37-2			Q235B-							
K02502	St37-3			HFW4		S235J2G3	S235J0			F							
K02601	St37-3G			S235J2G3		S235JRG1	S235J2G3			Q235B-							
K02701	USt37-2G			S235JRG1			S235J2G4			Z							
K02702							S235JRG1										

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).
 Helpful for specialists in grade technology, structural engineer, mechanical engineer, metallurgy and metal trader

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