

Database of Steel and Alloy (Marochnik)

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Characteristics for grade KH12 (X12).

Grade :	KH12 (X12)
Classification :	Die tool steel
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Chemical composition in % for grade KH12 (X12)

C	Si	Mn	Ni	S	P	Cr	Mo	W	V	Ti	Cu
2 - 2.2	0.1 - 0.4	0.15 - 0.45	max 0.4	max 0.03	max 0.03	11.5 - 13	max 0.2	max 0.2	max 0.15	max 0.03	max 0.3

Temperature of critical points for grade KH12 (X12).

$Ac_1 = 810$, $Ac_3(Ac_m) = 835$, $Ar_3(Arc_m) = 770$, $Ar_1 = 755$, $Mn = 180$

Brinell hardness for KH12 (X12) (annealing) , GOST 5950-2000

HB 10 ⁻¹ = 255 MPa

Equivalent steels for grade KH12 (X12)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Spain	China	Sweden	Bulgaria	Poland	Romania	Czechia	Austria	South Korea
-	DIN,WNr	JIS	AFNOR	BS	EN	UNI	UNE	GB	SS	BDS	PN	STAS	CSN	ONORM	KS
D3 T30403 T30404	1.2060 1.2080 X210Cr12 X210CrW12	SKD1	X200CM2 X200Cr12 Z200C12	2080 BD3	1.2080 X210Cr12 X21Cr12	X205Cr12KU	F.5212 X120Cr12 X210CM2 X210Cr12	Cr12	2312	Ch12 X210Cr12	NC11	205Cr115	19436	BOHLERK100 K100	STD1

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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