

Database of Steel and Alloy (Marochnik)

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Characteristics for grade R12F3 (P12Φ3).

Grade :	R12F3 (P12Φ3)
Classification :	High speed tool steel
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Chemical composition in % for grade R12F3 (P12Φ3)

C	Si	Mn	Ni	S	P	Cr	Mo	W	V	Co	Cu
0.95 - 1.05	0.2 - 0.5	0.2 - 0.5	max 0.6	max 0.03	max 0.03	3.8 - 4.3	max 1	12 - 13	2.5 - 3	max 0.5	max 0.25

Temperature of critical points for grade R12F3 (P12Φ3).

Ac₁ = 825

Brinell hardness for R12F3 (P12Φ3) (annealing), GOST 19265-73	HB 10⁻¹ = 269 MPa
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Equivalent steels for grade R12F3 (P12Φ3)

Warning! Indicated both exact and nearest equivalents.

Germany	Japan	Poland	Czechia
DIN, WNr	JIS	PN	CSN
1.3318 HS12-1-2 S12-1-2	SKH6	SW12	19802 19810

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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