

Database of Steel and Alloy (Marochnik)

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[Home](#) [European steel grades](#) [Steel and Alloy](#) [Search](#) [Equivalent grades](#) [Grading](#) [GOST Standard](#) [Contacts](#)

YOU HERE: [Steel and Alloy](#) -> [Tool steel](#)

Characteristics for grade R12 (P12).

Grade :	R12 (P12)
Classification :	High speed tool steel
Equivalent grades:	Is absent

Chemical composition in % for grade R12 (P12)

C	Si	Mn	Ni	S	P	Cr	Mo	W	V	Co
0.8 - 0.9	max 0.5	max 0.5	max 0.4	max 0.03	max 0.03	3.1 - 3.6	max 1	12 - 13	1.5 - 1.9	max 0.5

Temperature of critical points for grade R12 (P12).

$Ac_1 = 820$, $Ac_3(Ac_m) = 850$, $Ar_1 = 720$

Brinell hardness for R12 (P12) (annealing) ,	HB 10⁻¹ = 255 MPa
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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

[Top](#)

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