

SK10V/1.3207/HS10-4-3-10



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NAZWA GATUNKU: SK10V/1.3207/HS10-4-3-10

NAZWA: HIGH-SPEED STEEL

NORM: ISO 4957

APPLICATION

Steel susceptible to the turning and milling tools for finishing and roughing works of high strength steel, with high speed machining, for the working of austenitic and stainless steels, for work on automatic machines and skinning machines, e.g. high-performance mills and turning tools for austenitic and other materials etc.

CHEMICAL COMPOSITION:

C	Si	Mn	P	S	Cr	Mo	W	V	Co	Ni
1,20-1,35	Max 0,45	-	Max 0,030	Max 0,030	3,80- 4,50	3,20-3,90	9,00-10,00	3,00-3,50	9,50-10,50	-

MECHANICAL PROPERTIES:

Hardness after	Tempering °C	Symbol	Value
Soft annealing	-	HB	≤302
Quenching with 1230 °C in oil	-	HRC	66
Quenching with 1230 °C in oil and tempering (cooling during quenching can be gradual in the salt bath at the temperature of around 550 °C and then in the air)	350	HRC	61
	400	HRC	62
	450	HRC	64
	500	HRC	66
	550	HRC	66,5
	600	HRC	65
	650	HRC	62
	700	HRC	55

PHYSICAL PROPERTIES:

Property	Unit	Value
Density, ρ	g*cm ⁻³	8.30

TECHNOLOGICAL TREATMENT PROCESSES:

Technological treatment processes		Possible application	Temperature, °C
Hot forming	Forging	+	1050-900
	Rolling	+	1050-900
Heat treatment	Soft annealing	+	800-900
	Stress relieving	+	600-700
	Quenching	Heating I	~550
		Heating II	850
		Austenitising	1190-1240
	Tempering	+	550-600
Surface treatment	Nitriding	+	510-550
	Coat application	+	PVD

INTERNATIONAL STEEL GRADES:

ISO		EN		Russia	
HS10-4-3-10	ISO 4957:2004	HS10-4-3-10	ISO 4957:2004	-	-
US		Japan		China	
-	-	~SKH 57	JIS G 4403:1983	-	-