

Production Category	Category by Alloy Contents		Designation			Chemical Composition(%)						Properties(1=worst to 10=best)			
			Related Standards			C	W	Mo	Cr	V	Co	Water Resistance	Hot Hardness	Toughness	Grindability
	Steel Type	V Type	AISI	VDIEn	JIS										
Conventional methods (including ESRband VAR)	W-Mo		M2	1.3343	SKH51	0.85	6.0	5.0	4.0	2.0		5	5	8	5
			M2	1.3343	SKH51	0.88	6.0	5.0	4.0	2.0		5	5	8	5
			M50	1.3551	SKH52	0.80		4.0	4.0	1.0		3	1	9	10
		High V	M3-1	1.3344	SKH53	1.05	6.0	5.5	4.0	2.5		7	6	8	4
			M3-2	1.3344	SKH55	1.20	6.0	5.5	4.0	3.0		9	6	7	3
	W-Mo-Co		(M35)	1.3243	SKH56	0.90	6.0	5.5	4.0	2.0	5.0	6	7	5	5
			M36		SKH57	0.90	5.9	5.0	4.0	2.0	6.0	8	9	4	4
		High V	(T42)	1.3207	SKH58	1.30		3.5	4.0	3.5	10.0	10	9	2	2
	Mo		M1	1.3346	SKH59	0.85	10.0	8.5	4.0	1.0		4	3	8	9
			M7	1.3348	SKH2	1.00	1.5	8.5	4.0	2.0		6	5	8	9
	Mo-Co		M33		SKH3	0.95	1.8	9.5	4.0	1.0	8.0	7	8	4	8
			M42	1.3247	SKH4	1.10	1.5	9.5	4.0	1.0	8.0	8	9	3	8
	W		T1	1.3355	SKH10	0.80	18.0		4.0	1.0		5	5	6	8
	W-Co		T4	1.3255	SKH59	0.80	18.0		4.0	1.0	5.0	6	7	3	7
			T5	1.3265	SKH10	0.80	18.0		4.0	1.0	10.0	8	9	2	5
			High V	T15	1.3202	SKH57	1.55	13.0		4.0	5.0	5.0	10	9	1
	P/M methods	MO-W	High V	M42			1.10	1.5	9.5	4.0	1.0	8.0	6	9	8
MO-W		T15				1.55	13.0		4.0	5.0	5.0	10	9	8	5
Co		(T42)				1.30	10.0	3.5	4.0	3.0	10.0	10	9	6	6

Tool Steel Hardness Guide

B. L. Bramfitt, A.O. Benscoter



Tool Steel Hardness Guide:

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