

Heat treatment conditions by material

No.	Material	Hardness (HRC)	Sub-Zero Treatment	Sub-Zero Treatment Condition	Note
1	ASP23	60～64	×		
2		63～66	×		
3	ASP30	64～67	×		
4	ASP60	67～70	×		
5	C1720	37～45	×		Aging treatment
6	DC53	60～63	○	Φ 20 and more	Stabilizing treatment
7	DCMX	56～62	○	Any size	
8	DEX20	62～64	×		
9		63～66	×		
10	DEX40	64～67	×		
11	DHA-Thermo	48～50	×		
12	DRM1	56～58	×		
13	DRM2	58～62	×		
14	DRM3	62～66	×		
15	ELMAX	58～60	○	Φ 15 and more	
16	GO4	58～62	×		
17	HAP10	60～62	×		
18		62～64	×		
19	HAP40	64～67	×		
20	HAP50	65～68	×		
21	HAP5R	59～61	×		
22	HAP72	67～70	×		
23	HPM31	58～60	○	Any size	
24	HPM38	51～53	○	Φ 15 and more	High-temperature tempering
25	HPM75	38～42	×		Aging treatment
26	KPS6	58～62	×		
27	M340	56～58	○	Φ 15 and more	
28	MAS-1	50～55	×		
29	NOGA	58～62	○	Any size	
30	ORVER	50～55	×		
31	PD613	58～60	○	Any size	
32	POLMAX	50～55	×		

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33	QCM8	59～61	○	Any size	
34	RIGOR	56～58	○	Φ 15 and more	
35	S45C	45～55	×		
36	SCM435	40～50	×		
37	SK4	58～62	×		
38	SLD (SKD11)	60～62	○	Φ 15 and more	Low-temperature tempering
39		57～59	○	Φ 15 and more	High-temperature tempering
40	SKD61	48～50	×		
41		50～52	×		
42	SKH51	59～61	×		
43		61～64	×		
44		63～65	×		
45	SKH55	63～66	×		
46	SKH57	66～68	×		
47	SLD – MAGIC	60～62	○	Any size	
48		58～60	○	Any size	
49	S-STAR	50～55	○	Φ 15 and more	
50	STAVAX	51～53	○	Φ 15 and more	High-temperature tempering
51	SUJ2	58～62	×		
52	SUS420J2	51～55	○	Φ 15 and more	
53	SUS440C	56～60	○	Φ 15 and more	Low-temperature tempering
54		54～56	○	Φ 15 and more	High-temperature tempering
55	VANADIS23	60～64	×		
56		63～66	×		
57	VANADIS4E	58～62	×		
58	VANADIS60	67～70	×		
59	YAG	50～55	×		Aging treatment
60	YXM60	66～68	×		
61	YXR3	57～59	×		
62	YXR33	54～58	×		
63	YXR7	63～65	×		