

Grade		Brand name	Equivalent standard			Characteristics	Main applications				
			JIS	AISI	WNr.		Hot-Forming	Die-Casting	Hot Stamping	Cold-Forming	Plastic mold
Hot Work Tool Steel	Type H13 & Modified (5Cr) Single melted	DHA1	SKD61	H13 eq.	1.2344 eq.	• General-purpose hot work die steel	●	●	●		●
		DHA-WORLD	SKD61 mod.	H13 mod.	1.2344 mod.	• High hardenability & toughness	●	●	●		
		DH2F	SKD61 mod.	H13 mod.	1.2344 mod.	• 40HRC Pre-hardened steel • Easy machining		●			●
	Type H13 & 2367 modified (5Cr) Remelted	DHA1-A	SKD61	H13 eq.	1.2344 eq.	• Remelted steel of DHA1		●			
		DH31-EX	-	-	1.2367 mod.	• High hardenability & toughness • High strength at elevated temp.	●	●	●		
	Type SKD7 (3Cr-3Mo)	DH71	SKD7 mod.	-	-	• High softening resistance	●				
		DH32	SKD7 mod.	-	-	• High strength at elevated temp.	●				
	Hot-Forging Die Steel	GFA	SKT4 mod.	L6 mod.	1.27I4 mod.	• Especially for hammer forging	●				
		GF78	-	-	-	• 40HRC Pre-hardened steel • High strength at elevated temp.	●				
	High Thermal Conductivity Steel	DHA-Thermo	-	-	-	• High thermal conductivity		●			
Hot Stamping Die Steel		DHA-HS1	-	-	-	• High thermal conductivity & High softening resistance • Dedicated steel for hot stamping dies			●		
Cold Work Tool Steel	Type D2 & Original Cold Work Die Steel	DC11	SKD11	D2 eq.	1.2379 eq.	• General-purpose cold work die steel				●	
		DC53	-	-	-	• 8Cr-2Mo type • High hardness & toughness				●	●
		DCMX	-	-	-	• Matrix type cold work die steel • High toughness, easy machining & small dimensional change				●	
	Alloy Tool Steel	YK30	SKS93	W5 mod.	-	• Oil hardening steel				●	
		GOA	SKS3 mod.	1.2510 mod.	O1 mod.	• Oil hardening steel				●	
		GO4	-	-	-	• Air hardening Steel				●	
		GO5	-	-	-	• Flame hardening Steel				●	
GO40F	-	-	-	• 40HRC Pre-hardened steel • Easy machining				●			
Plastic Mold Steel	Type P20 modified	PX4,PX5	-	P20 mod.	1.2330 mod.	• 30HRC Pre-hardened steel					●
		PAC5000	-	P20 mod.	1.2311 mod.	• 40HRC Pre-hardened steel • High hardness					●
	NAK series	NAK55	-	P21 mod.	-	• 40HRC Precipitation hardening steel • Easy machining					●
		NAK80	-	P21 mod.	-	• 40HRC Precipitation hardening steel • High mirror-finish					●
		NAK86K	-	-	-	• 38HRC Pre-hardened steel • High mirror-finish • Excellent corrosion resistance					●
		NAK101	SUS630 mod.	630 mod.	1.4542 mod.	• 33HRC Pre-hardened steel • High corrosion resistance					●
	Hardened & Tempered type	PD613	-	-	-	• High hardness & wear resistance • High mirror-finish					●
	Stainless Steel	G-STAR	SUS420F mod.	420F mod.	1.4029 mod.	• Easy machining					●
		S-STAR	SUS420J2 mod.	420 mod.	1.4028 mod.	• Remelted steel • High mirror-finish					●
	Maraging Steel	MAS1C	-	-	1.2709 mod.	• High toughness & strength					●
High Speed Tool Steel Matrix Type	DRM1	-	-	-	• High toughness • Maximum hardness 58HRC	●	●				
	DRM2	-	-	-	• High hardness & toughness • Maximum hardness 62HRC	●			●		
	DRM3	-	-	-	• High hardenability • Maximum hardness 66HRC				●		
Powder Metallurgy High Speed Tool Steel	DEX20	-	-	-	• High toughness				●		
	DEX40	SKH40	-	-	• High toughness • High strength at elevated temp.				●		