



DB-6 | 1.2714 | L6 | SKT4

DIN 1.2714 is highly recommendable for Close Die Forgings due to its characteristics of high wear-resistance, extra toughness, high hardness which is achieved with Cr-Ni-Mo-V high graded alloys. The standard hardness is 360 to 430 BHN. We supply Die blocks as the extra Forging Reduction & Upsetting with Double tempered to achieve the better Ultrasonic quality.

CHEMICAL COMPOSITION

W.nr	EQUIVALENT			C	Si	Mn	S	P	Cr	Mo	V	Ni
	JIS	DIN	AISI/ASTM									
1.2714	SKT4	56NiCrMo V7	DB-6	0.50- 0.60	0.10- 0.40	0.60- 0.95	<0.03	<0.03	1.00- 1.20	0.35- 0.55	0.05- 0.15	1.50- 1.80

STEEL PROPERTIES

The special Hot Work Pre hardened Steel with good toughness and high ware resistance. Die Steel is normally supply in hard, quenched & tempered and also in annealed condition in special case. Usually its working hardness is 360-430 BHN. This steel grade is the upgrade version of DIN 2713 for better performance.

Physical Properties

Coefficient of thermal expansion at °C	20-100	20-200	20-300	20-400	20-500	20-600
10⁻⁶ m/(m*K)	12.1	13.1	13.2	13.5	14.1	14.3

Thermal Conductivity °C	20	350	700
W/(m*K)	35	39	36

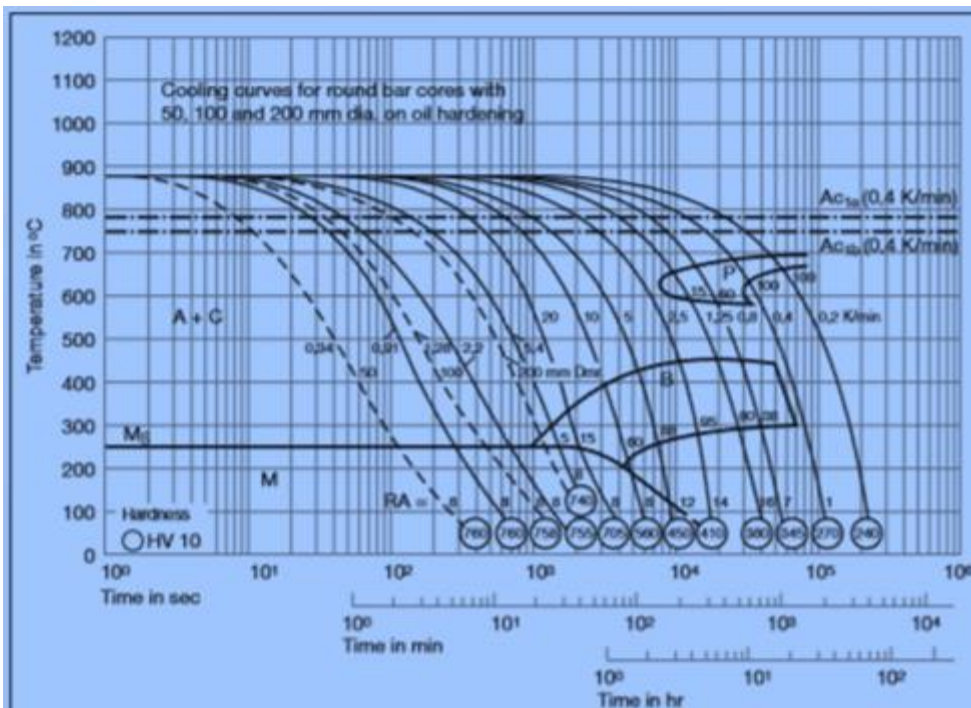
Heat Treatment

Soft annealing °C	Cooling	Hardness HB
650-710	Furnace	max. 240

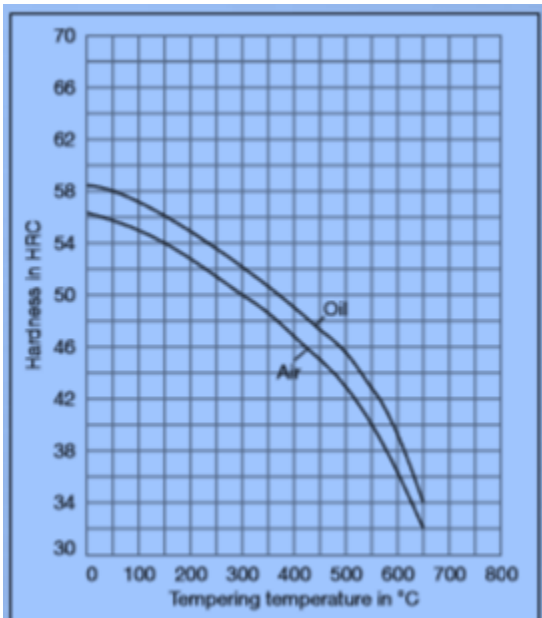
Hardening °C	Quenching	Hardness after quenching HRC
840-880	Oil	57
860-900	Air	55

Tempering °C after quenching	100	200	300	400	450	500	550	600	650
in Oil - HRC	56	54	52	49	47	46	43	38	34
in Air - HRC	54	52	50	47	45	43	40	36	32

C.C.T CURVE



TEMPERING CURVE



APPLICATION

Dies for Drop Forging Hammers & Mechanical Presses, Die Molds, Shoe Blocks, Die Holder, Cassettes, Piston Rods, Cranks, Boaster, Shearing Blades, Tools, plastic molds, Shafts Etc.