

**AISI L6 DB6 DIN 2714**

55NiCrMoV7

C 0.56 Cr 1.10 Mo 0.50 Ni 1.70 V 0.10

**Steel properties**

The special Hot Work Pre hardened Steel with good toughness and high wear 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.

**Standards**

AISI ~L6 AFNOR 55NCDW7

**Physical properties**

**Coefficient of thermal expansion at °C**  
 10<sup>-6</sup> m/(m · K)

20 – 100	20 – 200	20 – 300	20 – 400	20 – 500	20 – 600
12.1	13.1	13.2	13.5	14.1	14.3

**Thermal conductivity at °C**  
 W/(m · K)

20	350	700
35.0	39.0	36.0

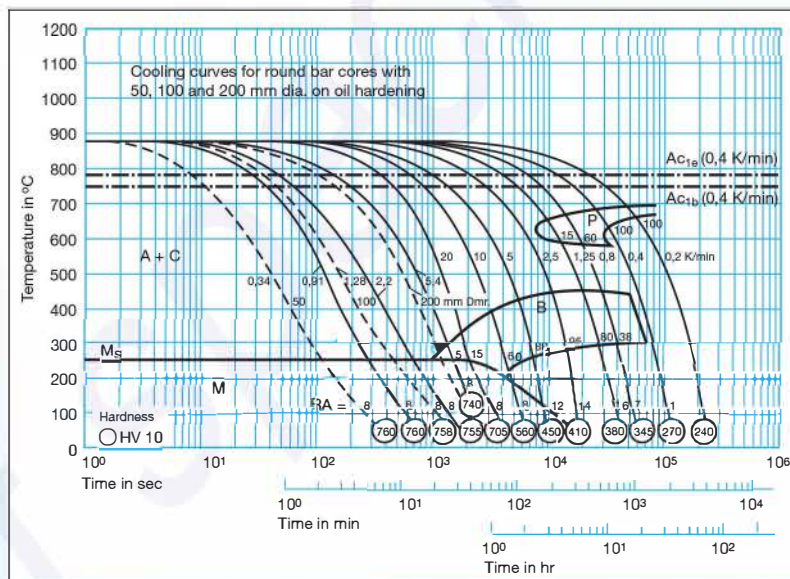
**Applications**

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

**Heat treatment**

<b>Soft annealing °C</b> 650 – 710	<b>Cooling</b> Furnace	<b>Hardness HB</b> max. 240
<b>Hardening °C</b> 840 – 880 870 – 910	<b>Quenching</b> Oil Air	<b>Hardness after quenching HRC</b> 57 55
<b>Tempering °C after quenching</b> <b>in Oil – HRC</b> <b>in Air – HRC</b>	100 200 300 400 450 500 550 600 650	56 54 52 49 47 46 43 38 34 54 52 50 47 45 43 40 36 32

**Time-temperature-transformation diagram**



**Tempering diagram**

