# W 1.2714

# A HRC 40 Prehardened Tool Steel

### **Material Properties**

40 HRC pre-hardened standard grade suitable for hot work tools and for the plastic mold industry. High resistance to wear, high toughness, good polishing properties.

# For which applications

Forging dies, hot shear knives, hot punching tools, die holders.

Plastic injection or compression mould cores and cavities, large-size moulds with high quality finish, compression dies under high mechanical and thermal stresses.

Thermoplastics (PE, PS, PP), LFT, thermosetting plastics, ABS, transparent melts.

**PROPERTIES** 

#### **ACCORDING TO STANDARD**

> Afnor 55 NCDV7

> DIN EN 4957 55 NICrMo V7

> Werkstoff W 1.2714

> AISI L6

#### **CHEMICAL ANALYSIS - WEIGHT%**

С	S	Р	Si	Mn	Ni	Cr	Мо	V
0.55	0.002	0.015	0.3	0.9	1.7	1.1	0.5	0.1

#### **MECHANICAL PROPERTIES**

2714 grade is delivered quenched and tempered to 360 - 400 HB (37 - 41 HRC).

Hardness	Rp 0.2 Yield Strength		Rm Tensile strength		Elongation	K C V 20°C	Elastic Modulus	
НВ	MPa	ksi	MPa	ksi	%	J	GPa	ksi
376	1045	151	1270	184	10	40	205	29733

#### **PHYSICAL PROPERTIES**

Thermal conductivity W.m-1.K-1					
20°C	20-100°C	20-200°C	20-300°C	20-400°C	Specific heat J/Kg. °C
29	11.9	12	12.7	13.4	460

Typical values