1.2510 / 1.2842

100MnCrW4/90MnCrV8

GENERAL PURPOSE OIL HARDENING COLD WORK TOOL STEEL

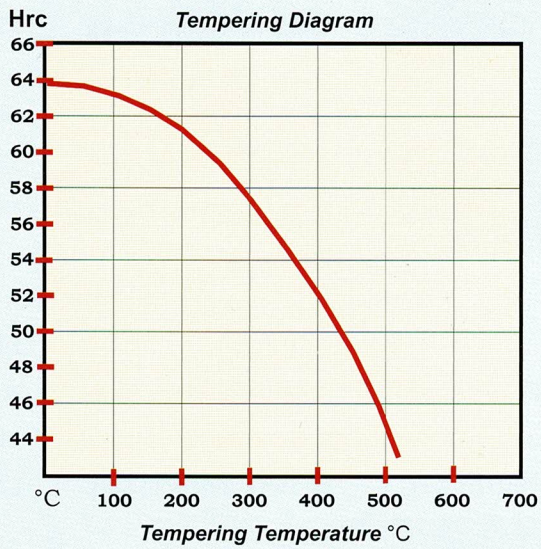
CHEMICAL COMPOSITION									
Typical analysis in %	C	Si	Mn	Cr	Ni	Mo	W	V	S
1.2842	0,90	0,20	1,90	0,40				0,10	0,03
1.2510	0,95	0,20	1,20	0,60			0,60	0,10	0,03

STEEL PROPERTIES

Good retention of cutting edge and minimal dimensional change in hardening
Good toughness and wear resistance

APPLICATIONS

Blanking and stamping dies for cutting sheet metals up to 5 mm, threading tools, drills, broaches, measuring tools, plastic moulds, plugs and ring gauges.



Forging.....: 1050 - 850 °C

Annealing.....: 710 - 760 °C max. 230 HB, max. 775 N/mm²

Stress Relieving.....: 650 - 680 °C

Hardening.....: 800 - 830 °C

Quench Medium.....: Oil or salt bath at 180 - 220 °C

Obtainable Hardness.: 61 - 63 HRc

Tempering.....: See tempering diagram (180 - 300 °C)

100 °C = 64 +/- 1HRc 200 °C = 62 +/- 1HRc 300 °C = 58 +/- 1HRc 400°C = 52 +/- 1HRc 500°C = 44 +/-1HRc

Delivery Condition: annealed 775N/mm² (230HB max.) Color Code for 1.2510 **GREEN** Achievable Hardness: HRc 61-63