meusburger

MATERIAL NO.:				1.2714 HH				
DESIGNATION: DIN: AFNOR: UNI: AISI:	55 NiCrMoV 55 NCDV 7 - L6	7						
INDICATORY ANALYSIS:	C 0.56 Cr 1.10 Mo 0.50 Ni 1.70 V 0.10							
STRENGTH:	40 - 43 HRC (≈ 1250 - 140	00 N/mm²)						
THERMAL CONDUCTIVITY AT 100°C:	$\frac{W}{m K}$							
COEFFICIENT OF THERMAL EXPANSION [10 ⁻⁶ /K]	100°C 12.2	200°C 13.0	300°C 13.3	400°C 13.7	500°C 14.2	600°C 14.4	700°C	
CHARACTER:	» Steel for through hardening, quenched and tempered, with high temperature resistance, through hardenability and toughness							
APPLICATION:	>> Mould inserts, cores and slides for plastic injection moulds							
TREATMENT BY:	» Polishing: technical polishing possible» Etching, EDM, nitriding, hard chrome plating: possible							
HEAT TREATMENT:	Already pre-toughened; usually no heat treatment required							
	 Soft annealing: 650 to 700°C for about 4 to 5 hours slow controlled cooling inside the furnace: 10 to 20°C per hour to about 600°C; further cooling in air, max. 248 HB Hardening: 830 to 900°C keep curing temperature for 15 to 30 minutes quenching in oil/water/compressed gas obtainable hardness: 56 HRC Tempering: slow heating to tempering temperature immediately after hardening; minimum time in furnace: 1 hour per 20 mm part thickness 							

TEMPERING CHART:

