meusburger

MATERIAL NO.:				1.2210				
DESIGNATION: DIN: AFNOR: UNI: AISI:	115 CrV 3 100 C3 107 CrV 3 KU L2 C 1.18 Si 0.25 Mn 0.30 Cr 0.70 V 0.10			TECHNICAL TIP: >>> Silver steel 1.2210 is dispatched finish-ground to h9 tolerance.				
INDICATORY ANALYSIS:								
STRENGTH:	max. 220 HB (≈ max. 750 N/mm²)							
THERMAL CONDUCTIVITY AT 100°C:	$\frac{W}{m K}$							
COEFFICIENT OF THERMAL EXPANSION [10 ⁶ /K]	100°C 11.8	200°C 12.5	300°C 12.9	400°C 13.5	500°C	600°C	700°C	
CHARACTER:	>> Chrome-Vanadium alloyed cold-work steel with high resistance; also known as silve steel.							
APPLICATION:	>> Small turned parts, core pins, punches and engraving tools							
TREATMENT BY:	» Polishing, etching, EDM, nitriding, hard chrome plating: not usual							
HEAT TREATMENT:	 Soft annealing: 710 to 740°C for about 2 to 5 hours slow controlled cooling inside the furnace: 10 to 20°C per hour to about 600°C further cooling in air, max. 220 HB Hardening: 780 to 840°C keep curing temperature for 15 to 30 minutes quenching in water/oil obtainable hardness: 64–66 HRC Tempering: slow heating to tempering temperature immediately after hardening; minimum time in furnace: 1 hour per 20 mm part thickness; min. 2 hours/cooling in air 							

TEMPERING CHART:

