meusburger

MATERIAL NO.:	1.3344 PM (PM23)						
DESIGNATION: DIN: AFNOR: UNI:	PM 6-5-3 X 130 WMoCrV 6-5-4-3 W 6 Mo 5 Cr 4 V 3	» Du	TECHNICAL TIP: >>> Due to the high tempering resistance, excellent for PVD and PACVD coating.				
AISI:	M 3-2 (PM)						
INDICATORY ANALYSIS:	C 1.25 Si 0.30 Mn 0.30 Cr 4.0 Mo 5.0 V 3.0 W 6.2						
STRENGTH:	max. 265 HB (≈ max. 905 N/mm²)						
THERMAL CONDUCTIVITY AT 100 °C:	24 <u>W</u> m K						
COEFFICIENT OF THERMAL EXPANSION [10 ⁻⁶ /K]		800 °C 11.8	400 °C 12.1	500 °C	600°C	700 °C	
CHARACTER:	>> Powder metallurgy high-speed steel with good machinability, high resistance to adhesive and abrasive wear, with optimal toughness due to the uniform and fine carbide structure, very good through hardenability and high dimensional stability						
APPLICATION:	>> Blocks for eroding, cutting punches and dies with particularly durable edges, inserts with excellent wear resistance						
TREATMENT BY:	 >> Polishing: best metallurgical properties for mirror polishing >> Nitriding: highly suited >> EDM: highly suited >> Coating: highly suited 						
HEAT TREATMENT:	 Soft annealing: at 860 to 880 °C, for approx slow controlled cooling of 1 air, max. 260 HB Hardening: 	10 to 20 °C		o about 600	°C; further c	ooling in	

