## meusburger

MATERIAL NO.:				1.0577						
DESIGNATION: DIN AFNOR UN AIS	2: A 52 FP 1: -	-				TECHNICAL TIP:  "> If no welding is required, we recommend 1.1730 - better machinability in spite of higher strength				
INDICATORY ANALYSIS:	$C \leq 0.22$ $Si \leq 0.55$ $Mn \leq 1.60$									
STRENGTH:	132 - 185 HB (≈ 450 - 630 N/mi	132 - 185 HB (≈ 450 - 630 N/mm²)								
THERMAL CONDUCTIVITY AT 20°C:	40 W/m K	40 W/m K								
COEFFICIENT OF THERMAL EXPANSION [10 <sup>-6</sup> /K]		00°C 12.1	300' 12.	_	400°C 13.5	500°C 13.9	600°C	700°C		
CHARACTER:	>> Unalloyed structural steel with good weldability									
APPLICATION:	» For common ap	>> For common applications in mould, die, and jigs and fixtures construction								
TREATMENT BY:	, ,	very good weldability due to its low carbon content  >>>>>>>> Polishing, etching, EDM, nitriding, hard chroming:								
HEAT TREATMENT:	>> Soft annealing: 650 to 700°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. 180 HB									