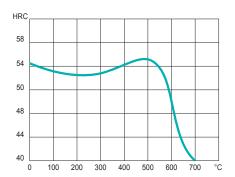
meusburger

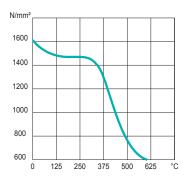
MATERIAL NO.:				1.2343 / 1.2343 ESR*			
DESIGNATION: DIN: AFNOR: UNI: AISI:	X 37 CrMoV 5-1 Z 38 CDV 5 X 37 CrMoV 5-1 KU H11 / H11 ESR			TECHNICAL TIP: >>> Susceptible to corrosion: during maching, continuous corrosion protection has to be ensured (especially during wire EDM) >>> 1.2343 ESR is highly suitable for mirror polishing			
INDICATORY ANALYSIS:	C 0.38 Si 1.00 Mn 0.40 S 0.03 (ESR 0.002) Cr 5.30 Mo 1.20 V 0.40						
STRENGTH: THERMAL CONDUCTIVITY AT 200 °C:	max. 230 H (≈ max. 780 27 W						
THERMAL CONDOCTIVITY AT 200°C.	27 <u>W</u> m K						
COEFFICIENT OF THERMAL EXPANSION [10-6/K]	100° C	200 °C	300 °C	400 °C	500 °C	600 °C	700 °C
	10.9	11.4	12.0	12.6	12.9	13.1	13.2
APPLICATION: TREATMENT BY: HEAT TREATMENT:	for very high requirements available in grade *ESR (Electro-Slag Remelted) **Cavity plates and inserts for plastic injection moulds; *ESR for die casting applications (Al, Mg, Zn) **Polishing: highly suitable **Etching: very easily feasible (graining) **EDM: in the hardened and tempered condition, treat again for stress relief about 20 °C below the last tempering temperature **Nitriding: increases the wear resistance and prevents the bonding of casting material **Soft annealing:						
	slow confurther confurther confurther confured before no recomme 1000 to keeping cooling in obtainab Tempering slow hear minimum	cooling in air, in air	ng inside the max. 205 H s-relieving l erature for 1 pressed gas 50-56 HRC ering temperace: 1 hour	e furnace: 10 IB heat treatmen 15 to 30 minut s/hot bath crature immed	t at 550°C (N tes diately after h	Meusburger s nardening;	



TEMPERING CHART:

HIGH TEMPERATURE STRENGTH CHART:





ESR)* Electro-Slag Remelted