



Sales Office:

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CRMHP VICTORY ESR

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Electro-slag-remelting(ESR)						
GENERAL:						
-very good corrosion resistance -improved polishability -good toughness -very good microcleanliness						
APPLICATIONS:						
- molds for plastics - molds for lens and optical products - glass industry - LCD/LED front/back cover - transparent part of the mobile						
CHEMICAL ANALYSIS: %						
C	Si	Mn	P	S	Cr	N
~0,25	~0,30	~0,40	≤0,025	≤0,003	~14,0	added
PHYSICAL PROPERTIES :						
Coefficient of thermal expansion	20-100 °C [10 ⁻⁶ m/(m x K)]		20-200 °C [10 ⁻⁶ m/(m x K)]		20-300 °C [10 ⁻⁶ m/(m x K)]	
	10,5		11,0		11,0	
Thermal conductivity	20 °C [W/(m x K)]		100 °C [W/(m x K)]		200 °C [W/(m x K)]	
	24,0		25,0		26,0	
HEAT TREATMENT:						
Hot forming		Soft annealing		Hardening		Tempering
1050 – 850 °C		730 – 780 °C		1000 – 1030 °C		250 – 600 °C #
ULTRASONIC:						
ASTM A388 - FBH max. 3 mm (1/8 inch)				or		
SEP 1921 – test group 3 – class E , e				or		
acc. to your request						
CLEANLINESS:						
ASTM E45- Method A with type A ≤ 0,5 ; B; C and D each ≤ 1					or	
DIN 50602– K1 ≤ 10					or	
acc. to your request						
DELIVERY CONDITION :						
Annealed with a hardness of a maximum of 250HBW						
SERVICE HARDNESS						
50-55 HRC						

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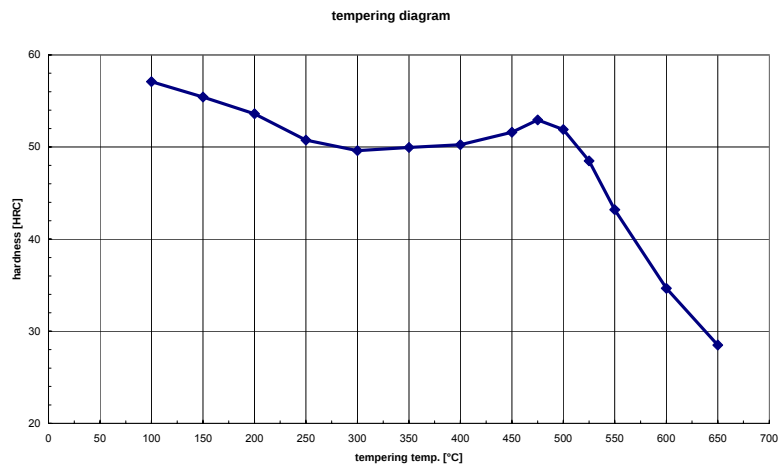
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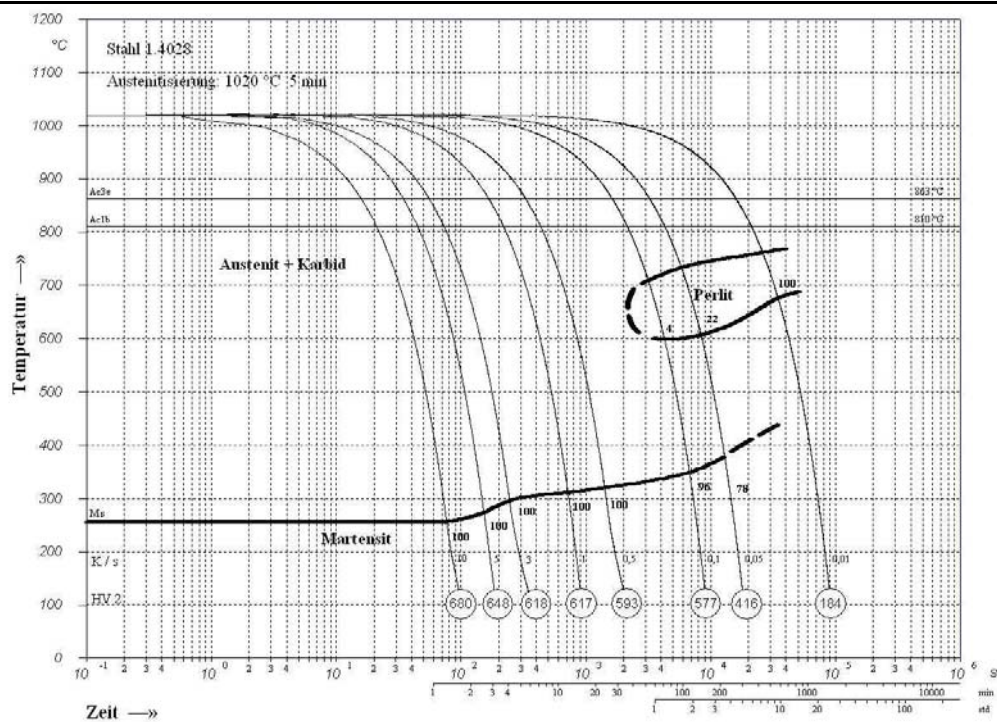
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TEMPERING DIAGRAM:

tested on samples
dia. 25 x 50mm long
hardened at 1020°C in oil



CCT GRAPH:



DELIVERY SIZES

Blocks – up to 500 mm thickness
or acc. to your request