



Sales Office:

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CPM 40 VICTORY ESR

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Electro-slag-remelting (ESR)						
GENERAL:						
-precipitation or age-hardened mould steel -uniform hardness across the cross section -mirror polishability -good machinability -excellent dimensional stability -good weldability -nitridable						
APPLICATIONS:						
- moulds for plastics (injection steam-moulds) - moulds for flat screen housings						
CHEMICAL ANALYSIS: %						
C	Si	Mn	Cr	Ni	Mo	other elements
	0,80	0,30	3,5	2,80	0,80	added
0,15	1,30	0,80	5,0	3,20	1,20	
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)]	
	11,2		11,6		12,2	
Thermal conductivity	20 °C [W/(m x K)]		100 °C [W/(m x K)]		200 °C [W/(m x K)]	
	28,0		28,4		29,0	
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 ≤ 1,0 and D each ≤ 1,5					or	
DIN 50602– K1 ≤ 10					or	
acc. to your request						
DELIVERY CONDITION :						
Age-Hardened						
SERVICE HARDNESS						
37-42 HRC (aiming to 38-40 HRC)						



Schmiedewerke Gröditz

GmbH · since 1779 · High-Grade Steel

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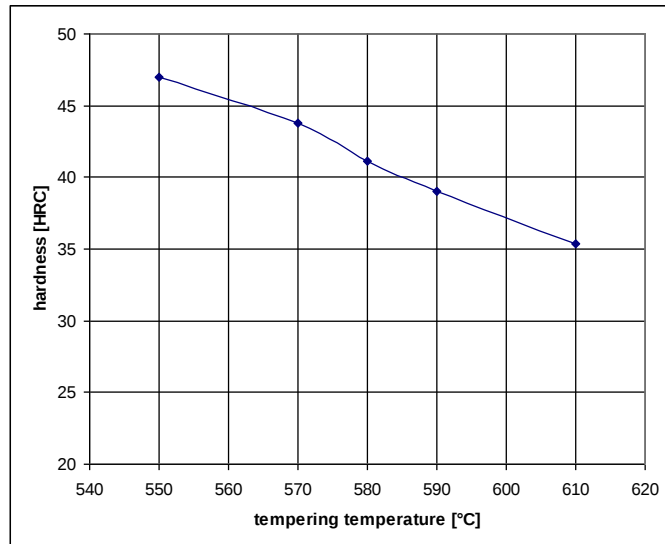
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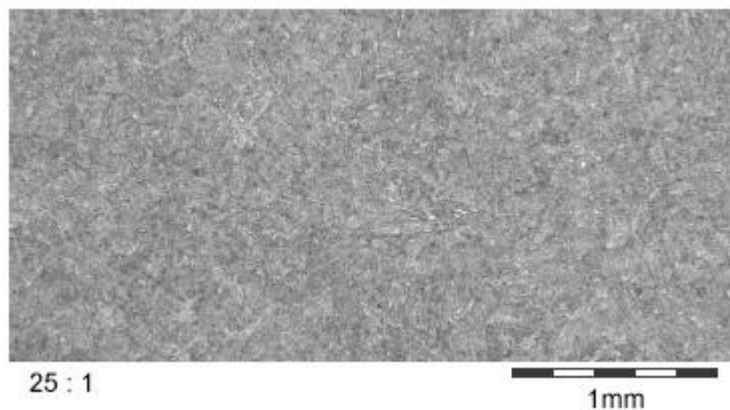
TEMPERING DIAGRAM:

tested on samples
dia. 25 x 50mm long



STRUCTURE

Martensitic structure



DELIVERY SIZES

Blocks up to 400mm thickness
or acc. to your request