



Dedicated to quality since 1972

ANAND GROUP OF COMPANIES

1.2379

**CONVENTIONAL MELTING
(EF+LF+VD)**

Produced by:



Schmiedewerke Gröditz
GmbH . since 1779 . High-Grade Steel



Dedicated to quality since 1972

ANAND GROUP OF COMPANIES

**ANAND MOULD STEELS PVT. LTD.
ANAND STEELS & ALLOYS**

UNIT 1 :

Plot No. 1442, Road No. 16,
Kalamboli Warehousing Complex,
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Tel.: 91-22-6513 3711 /12
Fax: 91-22-2742 3998
email: ashish@anandsteels.com
Website: www.anandsteels.com

UNIT 2 :

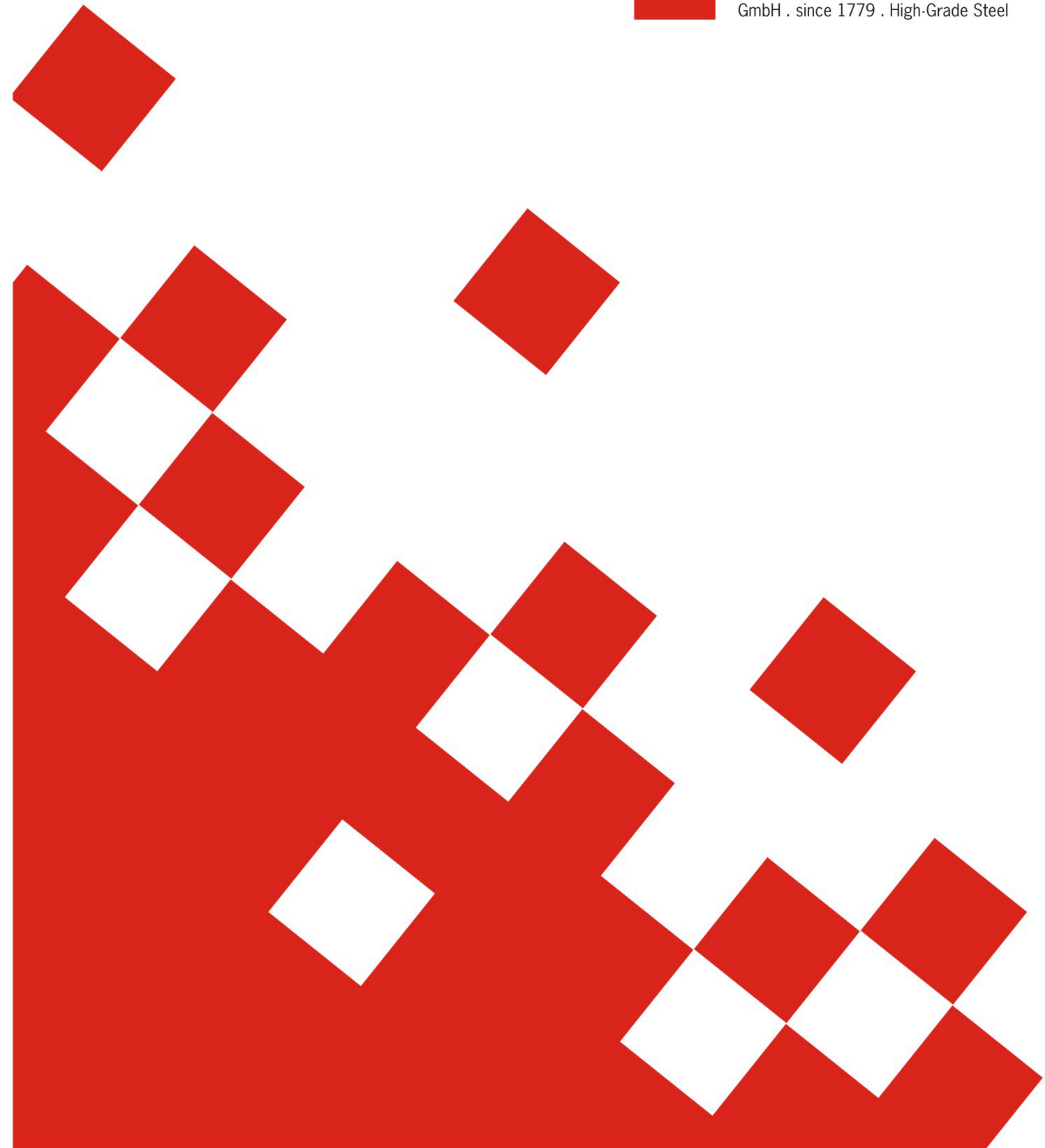
Plot No 9, H. No. 5-5-35/233,
Shaktipuram, Prashanthinagar,
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Hyderabad - 500 072
Tel. : 040-23078799/4927
email : south@anandsteels.com
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UNIT 3 :

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Samaipur Road, Sector - 58,
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UNIT 4 :

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1.2379

Conventional melting (EF+LF+VD)

• ANAND MOULD STEELS PVT. LTD. • ANAND MOULD STEELS PVT. LTD. • ANAND MOULD STEELS PVT. LTD.

GENERAL:

- ledeburitic 12%-Chrom steel
- very high wear resistance
- good toughness
- good tempering resistance
- nitridable after special heat treatment

APPLICATIONS :

- heavy duty cutting tools and dies
- shear blade
- punches for cold pilger rolling
- tools for cold extrusion
- small-sized plastic molds or inserts for the production from plastic with a high abrasion

CHEMICAL ANALYSIS : %

C	Si	Mn	P	S	Cr	Mo	V
1,45 – 1,60	0,10 – 0,60	0,20 – 0,60	≤ 0,030	≤ 0,020	11,0 – 13,0	0,70 – 1,00	0,70 – 1,00

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)]	20-400 °C [10 ⁻⁶ m/(m x K)]	20-500 °C [10 ⁻⁶ m/(m x K)]
	10,5	11,0	11,0	11,5	12,0
Thermal conductivity	20 °C [W/(m x K)]	350 °C [W/(m x K)]	700 °C [W/(m x K)]		
	16,7	20,5	24,2		

ULTRASONIC :

ASTM A388 - FBH max. 6 mm (1/4 inch) or
SEP 1921 – test group 3 – class C , c or acc. to your request

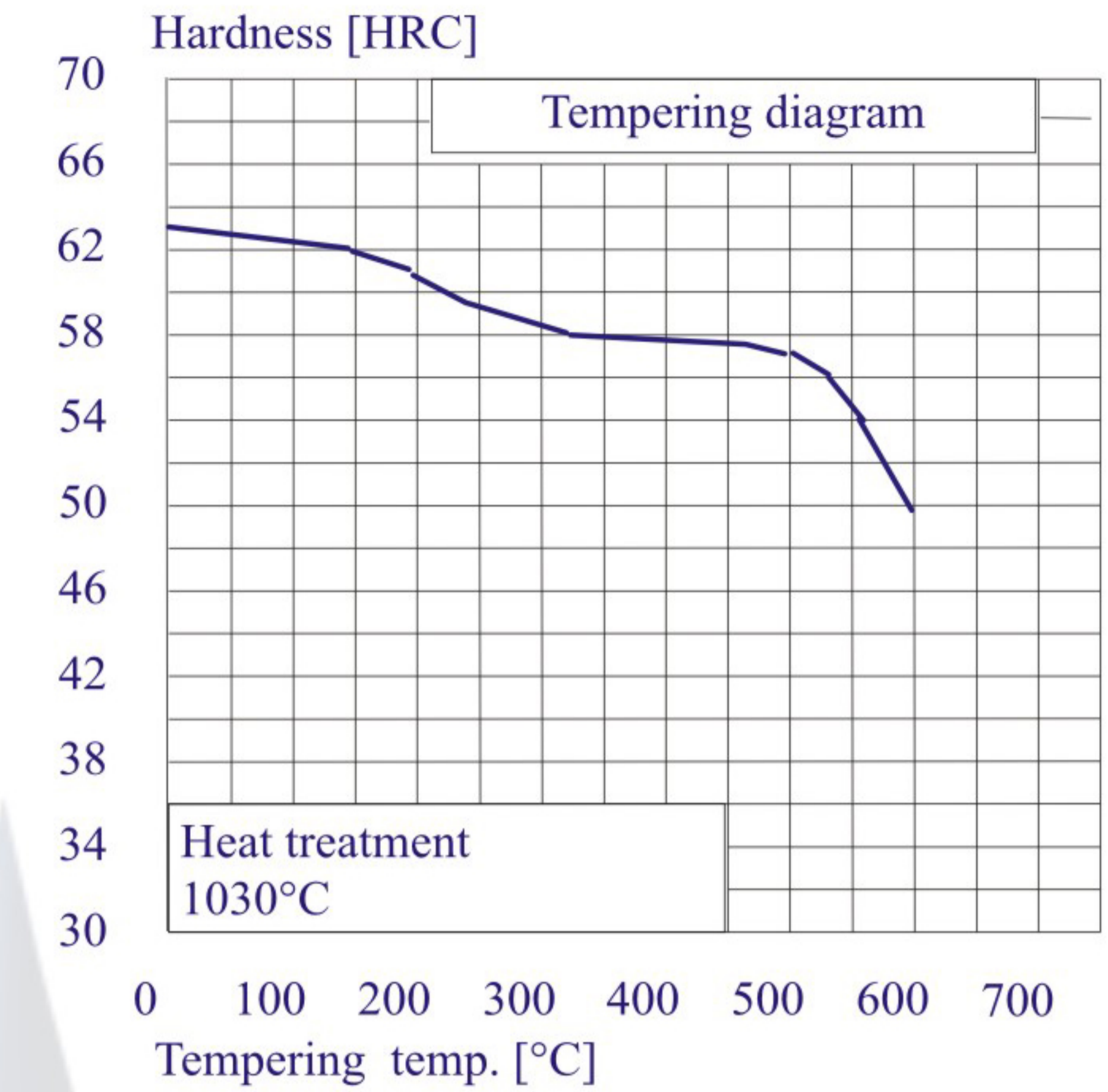
DELIVERY CONDITION	SERVICE HARDNESS	STRUCTURE
annealed with a hardness of max. 255 HB	58 - 62 HRC	ledeburitic structure

HEAT TREATMENT :

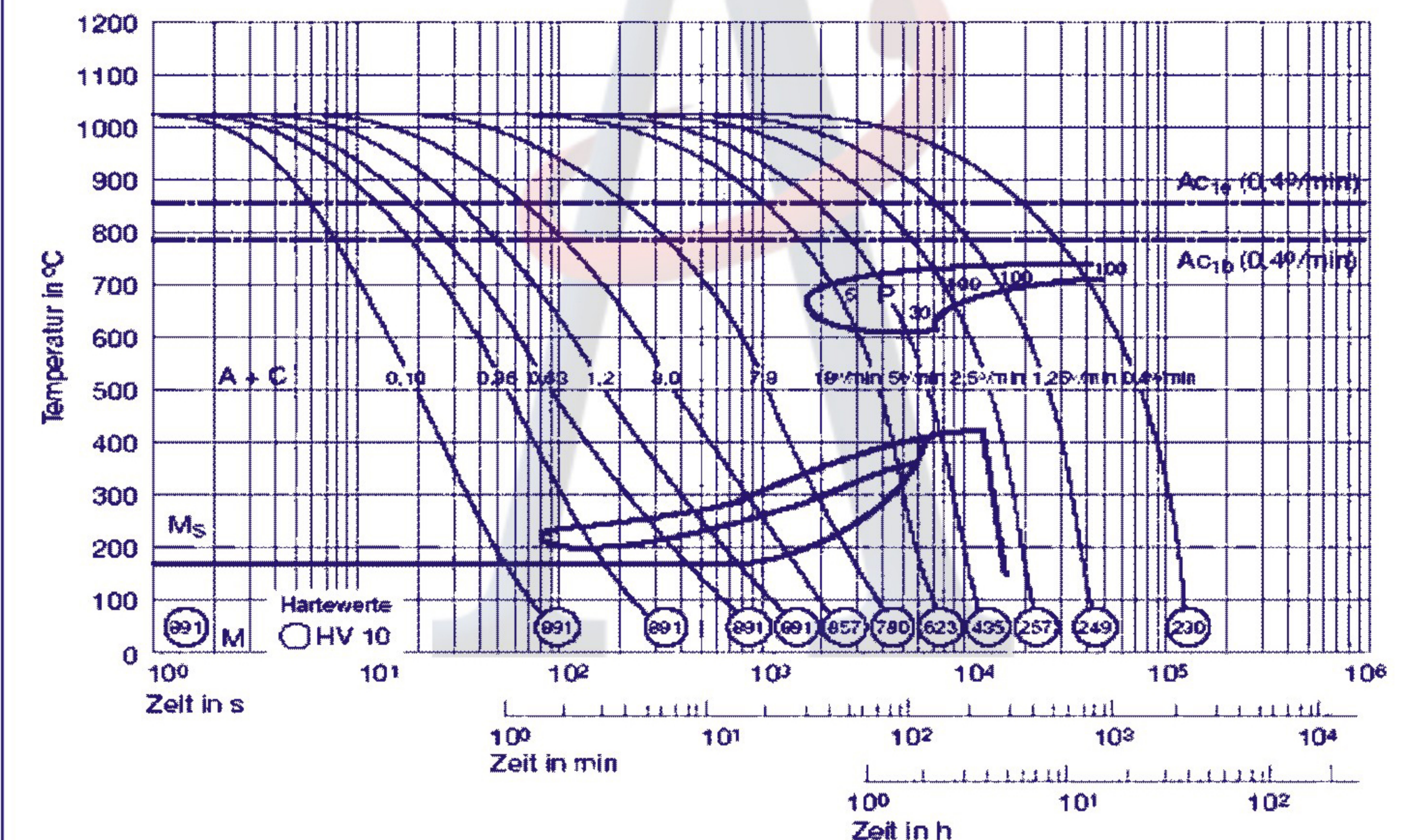
Hot forming	Soft annealing	Hardening	Tempering
1050 – 850 °C	710 – 740 °C	850 – 880 °C	560 – 680 °C #

TEMPERING DIAGRAM :

values in HRC
tested on samples
dia. 25 x 50 mm long
hardened at 1030 °C in oil



CCT GRAPH :



DELIVERY SIZES :

Rounds - up to 750mm
Blocks - up to 450mm thickness or acc. to your request

The details and values in this data sheet are typical values, no guarantee promises. Changes of the material, the qualities and/or performance data we reserve for us.