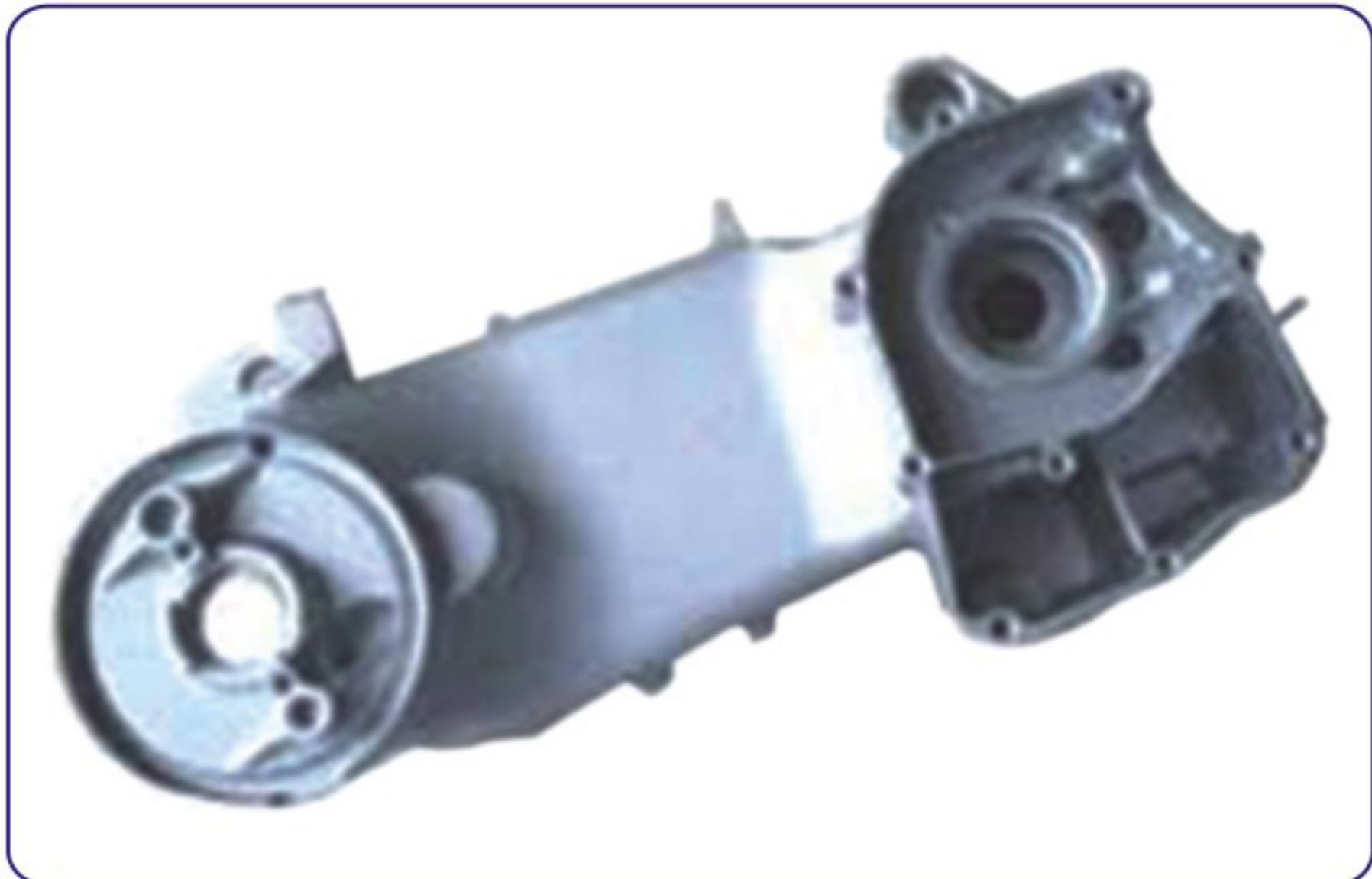


1.2344

(similar to AISI H13)
Conventional melting (EF+LF+VD)

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



- GENERAL:**
- Uniform & high level of machinability & polishability
 - High level of toughness and ductility
 - Good resistance to abrasion at both low and high temperatures
 - Excellent through-hardening properties
 - Good high-temperature strength and resistance to thermal fatigue
 - Very limited distortion during hardening.

APPLICATIONS :

Moulds for : - for extrusion (dies, backers, dieholders, liners, stems, dummy blocks)

- plastic moulding applications (Injection moulding of thermoplastics & for higher surface requirements)
- severe cold punching, scrap shears, hot shearing, wear resisting parts

CHEMICAL ANALYSIS : %

C	Si	Mn	P	S	Cr	Mo	V
0,38 - 0,42	0,8 - 1,2	0,3 – 0,5	≤ 0,025	≤ 0,005	4,8 – 5,5	1,2 – 1,5	0,9 – 1,1

PHYSICAL PROPERTIES :

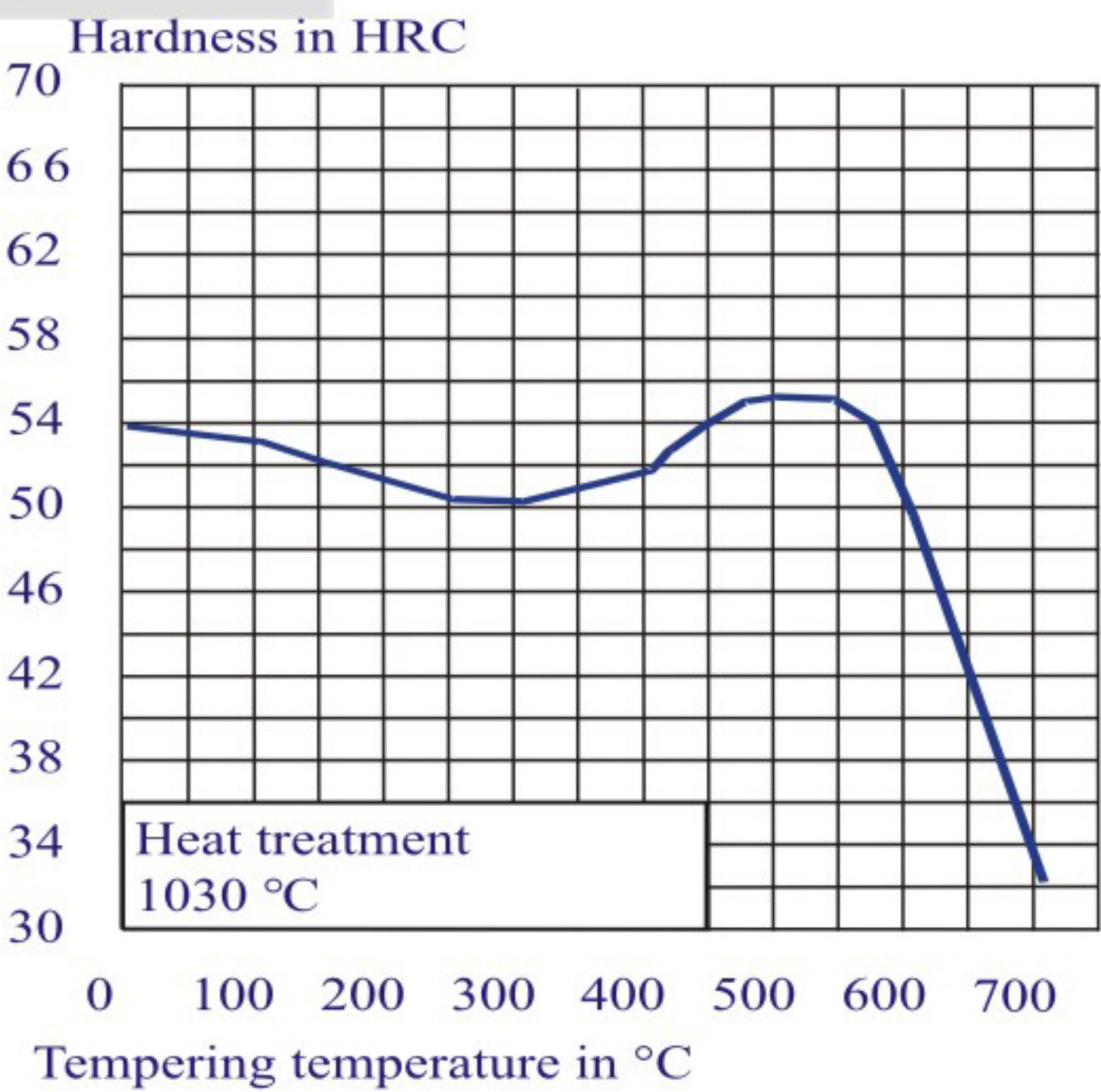
Coefficient of thermal expansion	20-100 °C	20-200 °C	20-300 °C	20-400 °C	20-500 °C	20-500 °C	20-500 °C
[10 ⁻⁶ m/(m x K)]	10.9	11.9	12.3	12.7	13.0	13.3	13.5
Thermal conductivity	20°C		350°C		700 °C		
[W/(m x K)]	25.2		27.0		30.3		

HEAT TREATMENT :

Hot forming	Soft annealing	Hardening	Tempering
1050-850°C	820-840°C	1020 – 1050 °C	520–700°C#

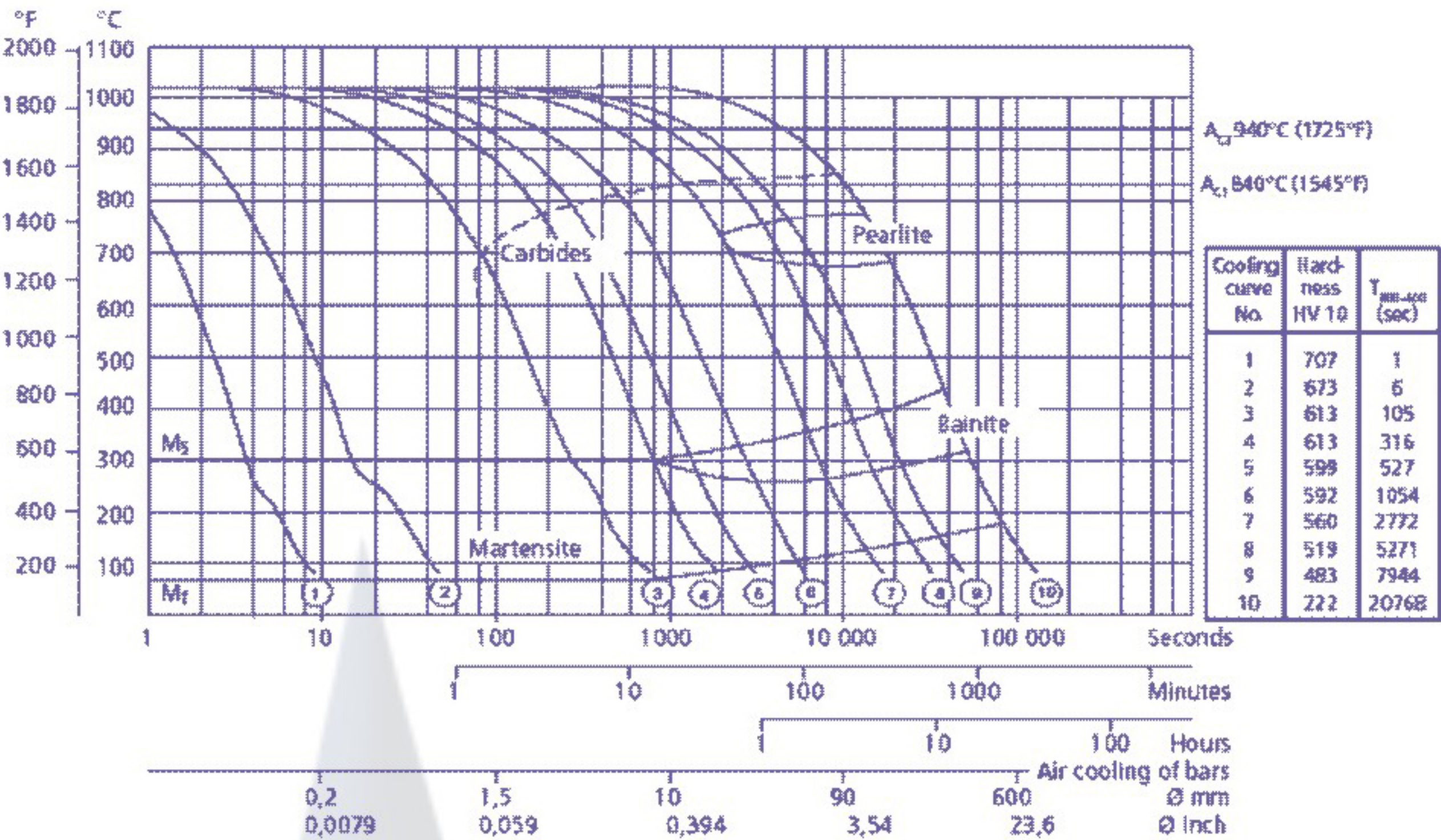
TEMPERING DIAGRAM : #

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



CCT GRAPH:

Austenitizing temperature 1020°C (1870°F). Holding time 30 minutes.



DELIVERY CONDITION	SERVICE HARDNESS	IMPACT STRENGTH
Soft annealed with a hardness of a maximum of 229HB or hardened and tempered acc. to your request	30 - 55 HRC	Unnotched test sample 10x7x55 [mm] VDG M82 Ed.02/1993 or SEP 1614 285 J/cm² or acc. to your request

ULTRASONIC :

ASTM A388 - FBH max. 5 mm (1/5 inch) or SEP 1921 – test group 3 – class D , d or Acc. to your request

CLEANLINESS :

ASTM E45- Method A with type A . 1,5 , B; C and D each . 2 or DIN 50602– K4 . 20 or acc. to your request

DELIVERY SIZES :

Rounds – up to 600 mm
Blocks – up to 500 mm thickness
or acc. to your request



Extrusion dies

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.



Schmiedewerke Gröditz
GmbH . since 1779 . High-Grade Steel



ANAND GROUP OF COMPANIES
ANAND MOULD STEELS PVT. LTD.
ANAND STEELS & ALLOYS

UNIT 1 :
Plot No. 1442, Road No. 16,
Kalamboli Warehousing Complex,
Kalamboli, Navi Mumbai - 410 218.
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,
Kukatpally (IE),
Hyderabad - 500 072
Tel. : 040-23078799/4927
email : south@anandsteels.com
website : www.anandsteels.com

UNIT 3 :
Shed No. 6, Subhadra Estate,
Samaipur Road, Sector - 58,
Faridabad 121004. (HR.)
Tel.: 0129 - 4052872
email : north@anandsteels.com
website : www.anandsteels.com

UNIT 4 :
Office 6, Nuttan Bharat Society,
Alkapuri, Vadodara – 390 007.
Mobile : +91 - 9879171221
email : gujarat@anandsteels.com
Website : www.anandsteels.com