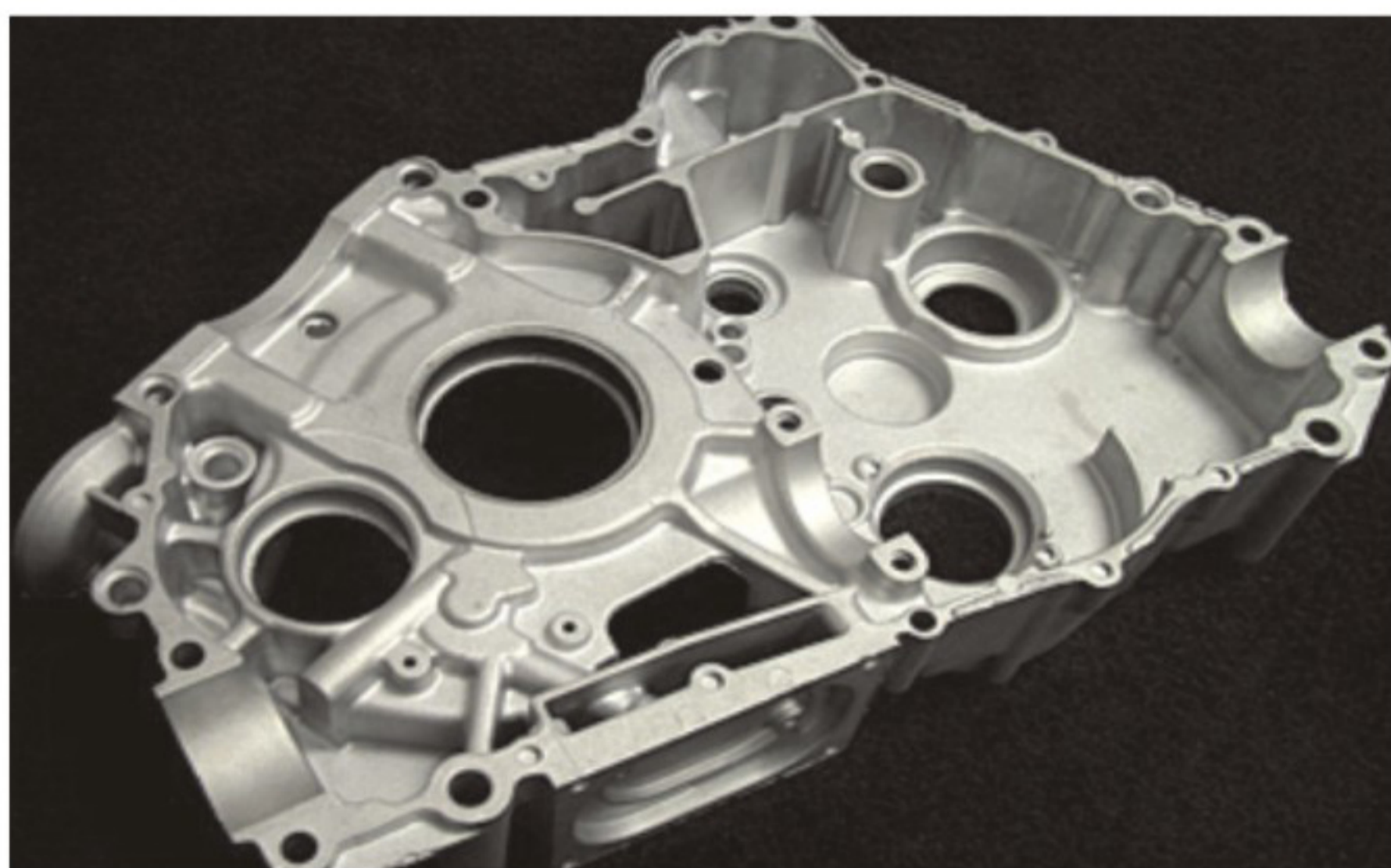


1.2367

Conventional melting (EF+LF+VD)

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



GENERAL:

- hot work tool steel with very good resistance to heat and good hot toughness
- high resistance to temperature fatigue and wear
- well suitable for high uses
- little change in dimension
- nitridable
- well polishable

APPLICATIONS :

- Pressure casting tools for light-alloy processing
- dies and die inserts for forging presses in steel forming
- extrusion tools
- die holders and internal bushes in heavy metal alloys
- form pressing dies in heavy and light metal processing



Extrusion dies

CHEMICAL ANALYSIS : %

C	Si	Mn	P	S	Cr	Mo	V
0,35 – 0,40	0,30 – 0,50	0,30 – 0,50	≤ 0,025	≤ 0,005	4,8 – 5,2	2,7 – 3,2	0,40 – 0,60

PHYSICAL PROPERTIES :

Coefficient of thermal expansion	20-100 °C	20-200 °C	20-300 °C	20-400 °C	20-500 °C	20-600 °C	20-700 °C
[10 ⁻⁶ m/(m x K)]	11.9	12.5	12.6	12.8	13.1	13.3	13.5
Thermal conductivity	20°C	350°C	700 °C				
[W/(m x K)]	29.6	34.0	35.4		30.3		

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

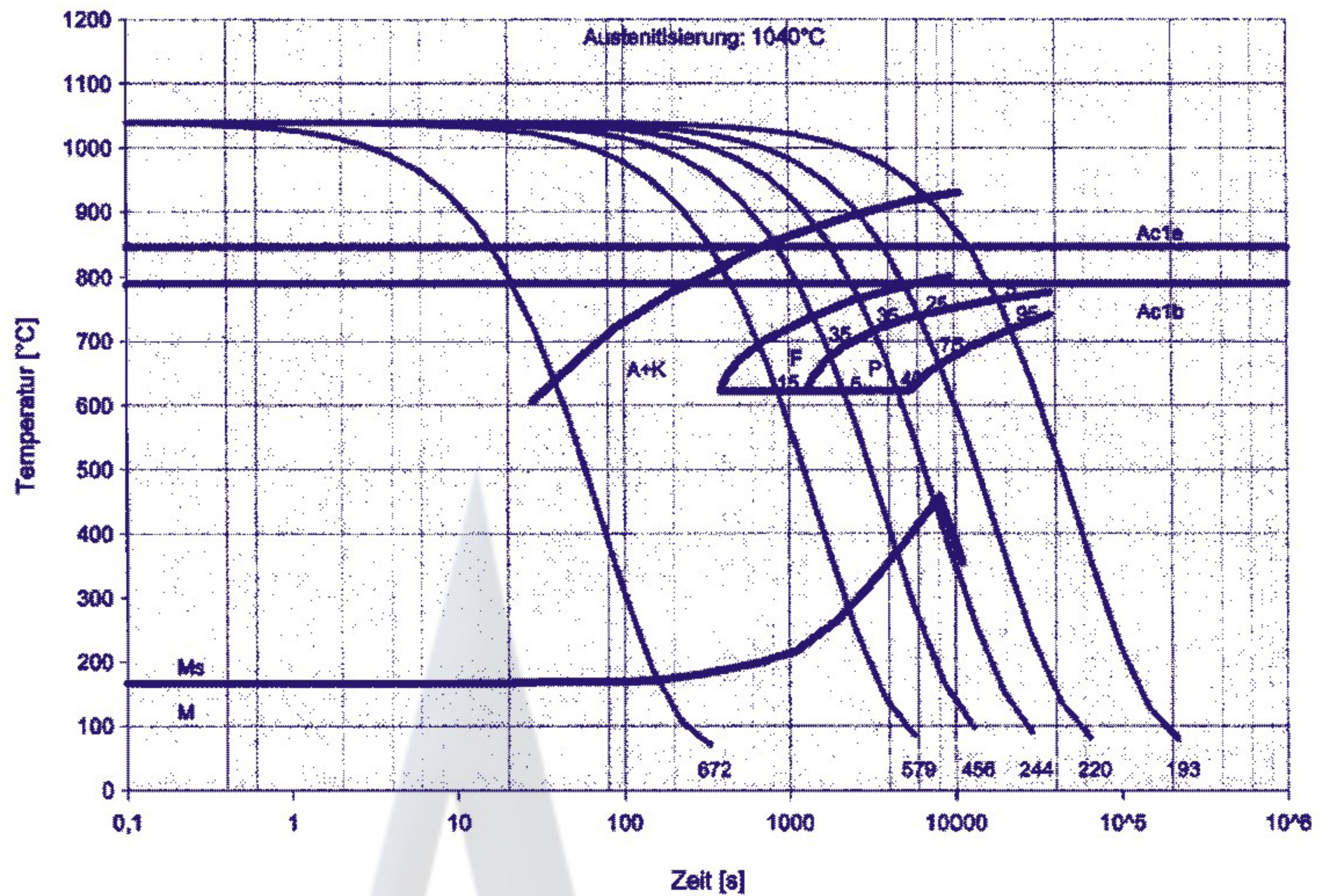
DELIVERY CONDITION :

Soft annealed, respectively fine structure treated with a hardness of a maximum of 229 HB

SERVICE HARDNESS:

35 - 55 HRC (~1100 - 1600 N/mm²)

CCT GRAPH:



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 $\leq 0,5$,B; C and D each ≤ 1 or DIN 50602– K1 ≤ 10 or acc. to your request

DELIVERY CONDITION	SERVICE HARDNESS	STRUCTURE
Soft annealed with a hardness of a maximum of 241HB or hardened and tempered acc. to your request	50 - 55 HRC	fine uniform annealed structure

DELIVERY SIZES :

Rounds – up to 700 mm

Blocks – up to 500 mm 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.



Schmiedewerke Gröditz
GmbH . since 1779 . High-Grade Steel



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