

ENGINEERING STEELS - HEAT TREATABLE AND NITRIDING STEELS

Available Product Variants

Plates

Product Description

Cr-Mo alloyed steel grade for applications requiring high tensile – and toughness values, particular in medium and large cross sections in quenched and tempered heat treatment condition.

Process Melting

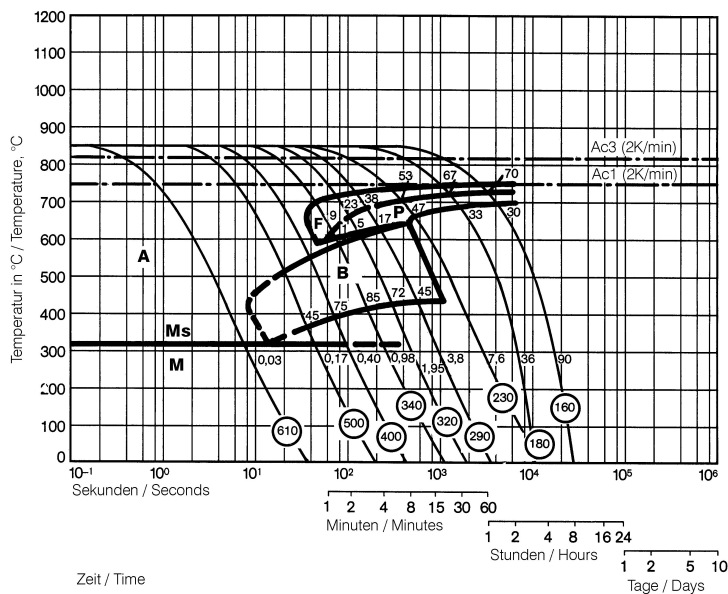
ESR

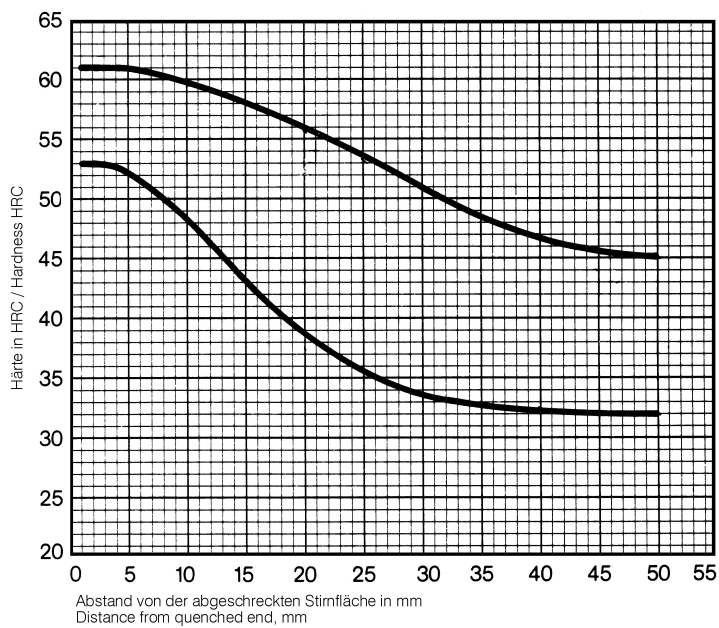
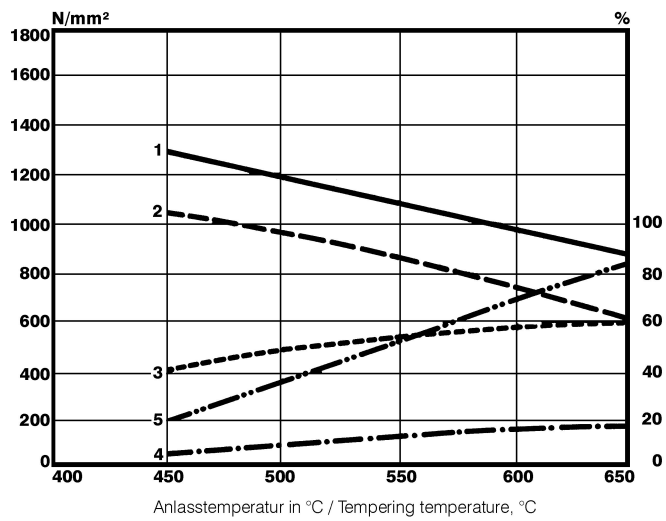
Applications

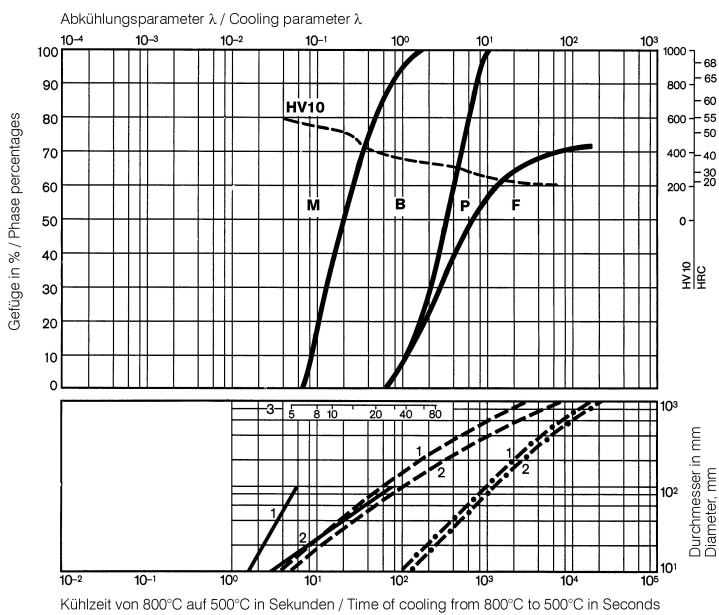
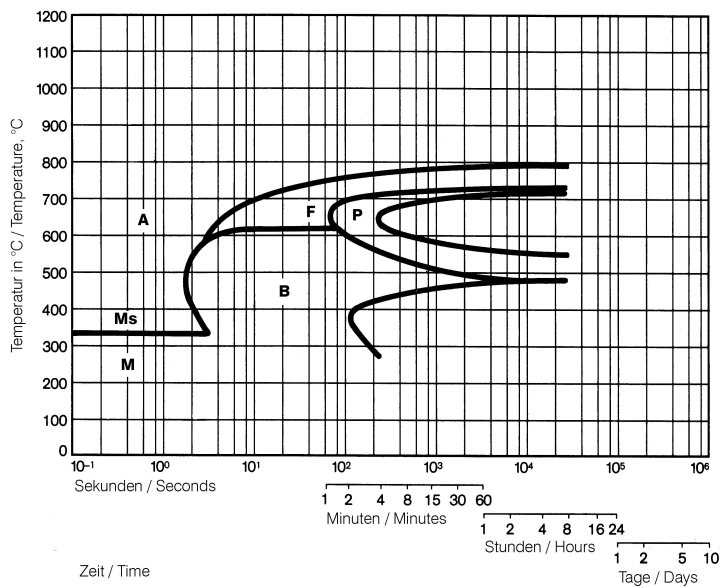
- Press plates
- Tool Holders (milling, drilling, turning & chucks)

Technical data

Material designation		Standards	
1.7225	SEL	10083-3	EN ISO
42CrMo4	EN	10132-3	
G41400	UNS	10250-3	
G41420		10263-4	
G41450		10269	
H41400		10297-1	
H41420		10305-1	
H41450		10343	
K14248	JIS	6349D	AMS
SCM 440 M		6382N	
SCM 440 TK		6381H	
SCM 440 HRCH		6395G	
SCM 440 RCH		6452D	
SCM 440 H		6529C	
SCM 440		G3311	JIS
SNB 7 Class 2		G3441	
		G3509-1	
		G3509-1	
		G4053	
		G4052	
		G4107	







Physical Properties

Density	7.85	[kg/dm ³]
Thermal conductivity	42	[W/(m.K)]
Specific heat	460	[kJ/kg K]
Spec. electrical resistance	0.19	[Ohm.mm ² /m]

Thermal Expansions between 20°C | 68°F and ...

Temperature (°C)	100	200	300	400	500	600
Thermal expansion (10^{-6} m/(m.K))	11.1	12.1	12.9	13.5	13.9	14.1

If other available product variants are listed in addition to long products, please note that these may differ in terms of melting process, technical data, delivery and surface condition as well as available product dimensions. For mandatory technical specifications, other requirements and dimensions, please contact our regional voestalpine BÖHLER sales companies. The data contained in this brochure is merely for general information and therefore shall not be binding on the company. We may be bound only through a contract explicitly stipulating such data as binding. Measurement data are laboratory values and can deviate from practical analyses. The manufacture of our products does not involve the use of substances detrimental to health or to the ozone layer.