

ACEROS RÁPIDOS

Formatos disponibles

Productos largos

Descripción

BÖHLER S607 - "Resistente al desgaste"

BÖHLER S607 es un acero que combina muy buena resistencia al desgaste, buena tenacidad y buena aptitud para el mecanizado.

Método de obtención

Convencional

Propiedades

- > Dureza y Ductilidad : alto
- > Resistencia al desgaste : muy alta
- > Resistencia a la compresión : alto
- > Estabilidad de los bordes : muy alta
- > Afilabilidad : buena
- > Dureza en caliente (dureza roja) : alto

Aplicaciones

- > Brocas helicoidales y grifos

Datos técnicos

Designación		Estándares	
1.3344	SEL	4957	EN ISO
HS6-5-3	EN		

Composición Química

C	Si	Mn	Cr	Mo	V	W
1,21	0,25	0,3	4,1	5	2,9	6,2

Características

	Resistencia a la compresión	Aptitud para el rectificado	Dureza en caliente	Tenacidad	Resistencia al desgaste	Retención del filo de la navaja
BÖHLER S607	★★★	★★★	★★★	★★	★★★	★★★
BÖHLER S200	★★★	★★	★★★	★★	★★★	★★
BÖHLER S400	★★★	★★★	★★★	★★★	★★	★★
BÖHLER S401	★★	★★★	★★	★★★	★★	★★★
BÖHLER S404	★★	★★★	★★	★★★	★★	★★
BÖHLER S430	★★	★★★	★★	★★★	★★	★★
BÖHLER S500	★★★★	★★★	★★★★	★★	★★★	★★★
BÖHLER S600	★★★	★★★	★★★	★★	★★	★★★
BÖHLER S630	★★★	★★★	★★★	★★	★★	★★★
BÖHLER S705	★★★	★★★	★★★★	★★	★★	★★★★
BÖHLER S730	★★★	★★★	★★★★	★★	★★	★★★★

Estado de suministro

recocido

Dureza (HB)	máx. 280
Resistencia a la tracción (N/mm ²)	máx. 6.551

Tratamiento térmico

Recocido

Temperatura	770 a 840 °C	Controlled slow cooling in furnace (10 - 20°C / h (50 - 68°F / h)) to approx. 600°C (1110°F), air cooling.
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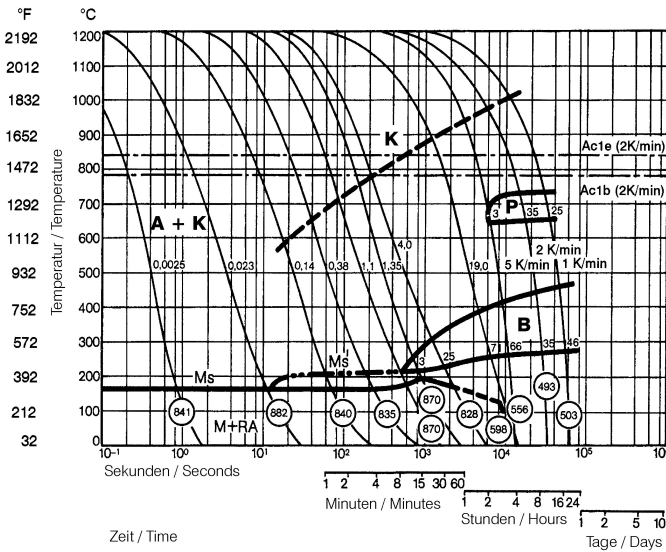
Alivio de tensiones

Temperatura	600 a 650 °C	Slow cooling furnace. To relieve stresses set up by extensive machining or in tools of intricate shape. After through heating, hold in neutral atmosphere for 1 to 2 hours.
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Temple y revenido

Temperatura	1.190 a 1.230 °C	Salt bath, vacuum Preheating: 1st stage ~ 500 °C, 2nd stage ~ 850 °C, 3rd stage ~1050 °C Austenitising: 1190 - 1230 °C, holding time after complete heating 80 seconds, maximum 150 seconds, to avoid material damage due to overheating. Quenching: oil, warm bath (500 - 550 °C), gas
Temperatura	550 a 570 °C	Slow heating to tempering temperature immediately after austenitising. Dwell time in the furnace 1 hour per 20 mm material thickness (at least 1 hour) Slow cooling to room temperature 3 tempering cycles recommended Hardness see tempering chart

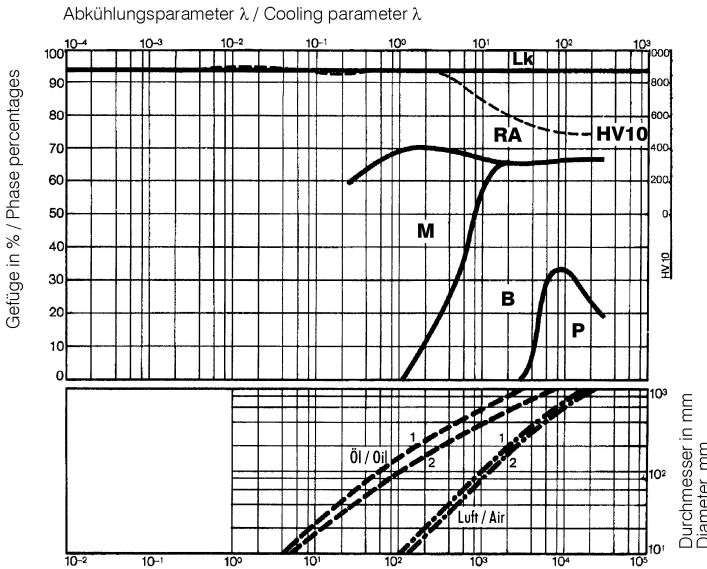
Continuous cooling CCT curves



Austenitising temperature: 1210°C (2210°F)
Holding time: 180 seconds

- A....Austenite
- B....Bainite
- K....Carbide
- P....Pearlite
- M....Martensite
- RA...Retained Austenite

Quantitative phase diagram

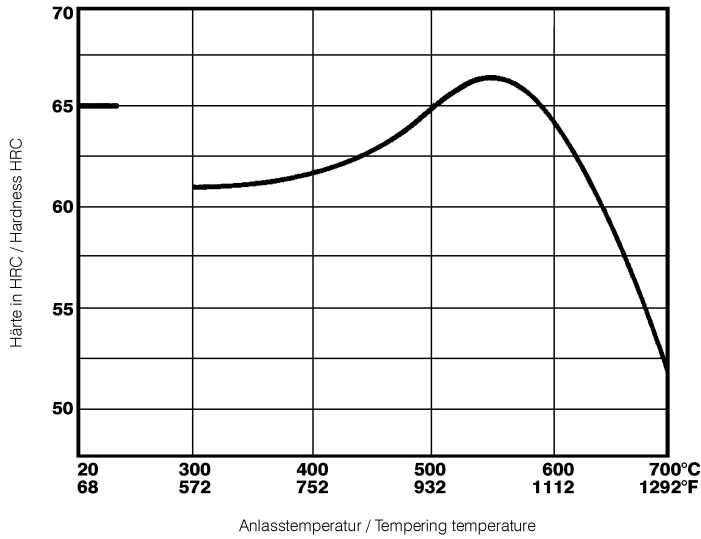


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- 1....Edge or Face
- 2....Core
- 3....Jominy test: distance from quenched end

Kühlzeit von 800°C auf 500°C in Sek. / Cooling time in sec. from 800°C to 500°C (1472 - 932°F)

Tempering Chart



Hardening temperature: 1220°C (2228°F)

Holding time 3 x 2 hours
Specimen size: square 25 mm

Propiedades físicas

Temperatura (°C)	20
Densidad (kg/dm ³)	8,1
Conductividad térmica (W/(m.K))	19
Calor específico (kJ/kg K)	0,46
Resistencia eléctrica específica (Ohm.mm ² /m)	0,54
Módulo de elasticidad (10 ³ N/mm ²)	217

Expansión térmica

Temperatura (°C)	100	200	300	400	500	600	700
Expansión térmica (10 ⁻⁶ m/(m.K))	11,5	11,7	12,2	12,4	12,7	13	12,9

For additional specifications and technical requirements, 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.

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voestalpine

ONE STEP AHEAD.