

ACEROS INDUSTRIALES - ACEROS PARA TRATAMIENTO TÉRMICO Y ACEROS PARA TEMPLE POR PRECIPITACIÓN

Application Segments

Aerospace

Formatos disponibles

Productos largos

Descripción

BÖHLER V118S1 is a premium aircraft-quality, low-alloy Ni-Cr-Mo steel in the form of bars, forgings and forging stock requiring high tensile and toughness values, particular in large cross sections in the hardened and tempered condition. The molybdenum addition prevents the steel from being susceptible to temper brittleness.

These products have been used typically for parts requiring a through-hardening capability up to 6 inches (152,4 mm) in nominal thickness at time of heat treatment but usage is not limited to such applications.

Método de obtención

Convencional

Aplicaciones

> Elementos estructurales (Aerosp.)

Datos técnicos

Designación		Estándares	
S98	Market grade	S98	BS
1.6745	SEL	S99	
40NiMoCr10-5	EN		

Composición Química

C	Si	Mn	P	S	Cr	Mo	Al
0,36 a 0,44	0,10 a 0,35	0,45 a 0,7	máx. 0,025	máx. 0,015	0,5 a 0,8	0,45 a 0,65	0,015 a 0,050

Related to BS S98

Estado de suministro

Endurecido y templado

Dureza (HB)	341 a 388 S98D, bright bars up to 152.4mm diameter
Resistencia a la tracción (MPa)	1.158 a 1.313
Resistencia a la cesión (MPa)	mín. 1.004

Endurecido y templado

Dureza (Unit)	341 a 388 S98B, black bars up to 152.4mm diameter
Resistencia a la tracción (MPa)	1.158 a 1.313
Resistencia a la cesión (MPa)	mín. 1.004

Barras redondas

Diámetro mm			MOQ kg	Longitud m			Tolerancia
FORZADO							
5,01	-	12,49	750	3,00	-	4,00	IT h/k 11
12,50	-	55,00	900	3,00	-	4,00	IT h/k 11
55,01	-	69,00	1.200	3,00	-	4,00	IT h/k 11
69,01	-	72,00	1.000	3,00	-	4,00	IT h/k 11
72,01	-	82,00	1.150	3,00	-	4,00	IT h/k 11
82,01	-	120,01	1.400	3,00	-	4,00	IT h/k 11
120,01	-	145,00	1.400	3,00	-	5,00	IT h/k 14

For additional specifications and other sizes please contact BÖHLER Edelstahl - Special Materials Aerospace & Land Based Turbine

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.