

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

## Application Segments

Aerospace

## Formatos disponibles

Productos largos

## Descripción

BÖHLER V141 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.)

> Otros componentes aeroespaciales

## Datos técnicos

Designación		Estándares	
S97	Market grade	S97	
		S140	BS
		S154	

## Composición Química

C	Si	Mn	P	S	Cr	Mo	Ni	Al
0,27 a 0,35	0,15 a 0,35	0,45 a 0,7	máx. 0,025	máx. 0,015	0,5 a 0,8	0,45 a 0,65	2,3 a 2,8	0,015 a 0,050

Related to BS S97

## Estado de suministro

### recocido

Dureza (HB)	máx. 277   S97A billets and bars for forging
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### Endurecido y templado

Dureza (HB)	293 a 341   S97 B and D bright bars for further processing, S97C forgings
Resistencia a la tracción (MPa)	1.004 a 1.158
Resistencia a la cesión (MPa)	mín. 850

## Barras redondas

Diámetro mm			MOQ kg	Longitud m			Tolerancia
<b>FORZADO</b>							
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	-	120,00	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.