

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

Application Segments

Aerospace

Formatos disponibles

Productos largos*

Forja de matriz abierta

*) Presented data refer exclusively to long products. Please observe the detailed explanations at the end of the data sheet (pdf).

Descripción

BÖHLER V124SC 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.

These products have been used typically for parts requiring a through-hardening capability up to 3.5 inches (89 mm) in nominal thickness at time of heat treatment but usage is not limited to such applications. E.g. highly stressed components and parts for the aircraft industry, Tracks, helicopter shafts, bolts and screws.

Método de obtención

Airmelted + VAR

Aplicaciones

> Elementos estructurales (Aerosp.)

> Otros componentes aeroespaciales

Datos técnicos

Designación		Estándares	
4340	Market grade	6414	AMS
	AISI		
G43400	UNS		

Composición Química

C	Si	Mn	P	S	Cr	Mo	Ni	Cu
0,38 a 0,43	0,15 a 0,35	0,65 a 0,90	máx. 0,010	máx. 0,010	0,70 a 0,90	0,20 a 0,30	1,65 a 2,00	máx. 0,35

Releatrd to AMS 6414

Estado de suministro

recocido

Dureza (HB)	máx. 235 Hot finished and annealed, above 12.7 mm diameter
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recocido

Resistencia a la tracción (MPa)	máx. 862 Cold finished and annealed, max 12.7 mm diameter
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recocido

Dureza (HB)	máx. 255 Cold finished and annealed, above 12.7 mm diameter
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Barras redondas

Diámetro mm			MOQ kg	Longitud m			Tolerancia
FORZADO							
12,50	-	55,00	1.250	3,00	-	4,00	IT h/k 11
55,01	-	120,00	2.500	3,00	-	4,00	IT h/k 11
120,01	-	140,00	2.500	3,00	-	5,00	IT h/k 14
FORJADO							
140,01	-	203,20	2.200	2,00	-	5,00	IT h/k 14

Long Products: For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

Open Die Forgings: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact the business unit Open Die Forgings of voestalpine BÖHLER Edelstahl GmbH & Co KG.

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.