

OȚELURI PENTRU CONSTRUCȚII - OȚELURI TRATATE TERMIC ȘI OȚELURI NITRURATE

Application Segments

Aviație

Available Product Variants

Long Products*

Open Die Forgings

* Datele prezentate se referă exclusiv la produsele lungi. Vă rugăm să respectați explicațiile detaliate de la sfârșitul fișei tehnice (pdf).

Product Description

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.

Process Melting

Airmelted + VAR

Applications

> Piese structurale (aerospațiale)

> Alte componente aerospațiale

Technical data

Material designation	Standards
4340	Market grade 6414 AMS AISI
G43400	UNS

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	Cu
0.38 to 0.43	0.15 to 0.35	0.65 to 0.90	max. 0.010	max. 0.010	0.70 to 0.90	0.20 to 0.30	1.65 to 2.00	max. 0.35

Releatrd to AMS 6414

Delivery condition

Recoaptă

Hardness (HB)	max. 235 Hot finished and annealed, above 12.7 mm diameter
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Recoaptă

Tensile Strength (MPa)	max. 862 Cold finished and annealed, max 12.7 mm diameter
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Recoaptă

Hardness (HB)	max. 255 Cold finished and annealed, above 12.7 mm diameter
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Round Bars and Wire Rod (if any)

Diameter mm			MOQ ex mill kg	Length m			Tolerance
ROLLED							
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
FORGED							
140.01	-	203.20	2,200	2.00	-	5.00	IT h/k 14

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.

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ONE STEP AHEAD.