

ISIL İŞLEM VE ÇÖKELME SERTLEŞMESİNE UYGUN ÇELİKLER

Application Segments

Aerospace

Automotive

Mevcut Ürün Şekilleri

Uzun Ürünler*

Yarı Mamül Ürünler / Kütük

Açık Kalıpta Dövme

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

Ürün Tanımı

BÖHLER V361 is a 3% Cr-Mo-V nitriding low-alloy steel of premium aircraft-quality, low-alloy steel offering a tensile strength of up to over 1350MPa in the form of bars, forgings, and forging stock. Due to the optimized production route via VIM-melting and VAR-remelting, the steel offers high impact strength and fatigue limit. It may be nitrided in the heat treated condition to obtain a wear resistant surface.

It is used typically for nitrided parts such as bearings, operating under heavy loads and high speeds at moderate temperatures, and requiring highest surface hardness, high core toughness, and less distortion than parts made from case hardening steel, but usage is not limited to such applications.

Erime rotası

VIM + VAR

Uygulamalar

- > Bearings
- > Tübin ve Motor Parçaları (Havacılık ve Uzay)
- > Diğer Havacılık ve Uzay Parçaları
- > Otomotiv
- > Yapısal Elemanlar (Havacılık ve Uzay)
- > Motor Sporları

Teknik veriler

Malzeme Tanımı		Standartlar	
E32CDV13	Market grade	6481	AMS
1.7765	SEL		
32CrMoV12-10	EN		

Kimyasal Bileşim

C	Si	Mn	P	S	Cr	Mo	Ni	V	Cu
0,29 kadar 0,36	0,10 kadar 0,40	0,40 kadar 0,70	maks. 0,015	maks. 0,005	2,80 kadar 3,30	0,70 kadar 1,20	maks. 0,30	0,15 kadar 0,35	maks. 0,10

Related to AMS 6481

Teslimat durumu

Annealed

Çekme mukavemeti (MPa)	maks. 862 max 12.7 mm diameter, cold finished
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Annealed

Sertlik (HB)	maks. 255 above 12.7 mm diameter, hot finished
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Annealed

Sertlik (HB)	maks. 269 above 12.7 mm diameter, cold finished
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Yuvarlak çubuklar

Çap mm			MOQ kg	Uzunluk m			Hoşgörü
Haddelenmiş							
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
DÖVÜLMÜŞ							
140,01	-	203,20	2.200	3,00	-	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.

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voestalpine

ONE STEP AHEAD.