

NI ESASLI ALAŞIMLAR

Application Segments

Oil & Gas/CPI

Mevcut Ürün Şekilleri

Uzun Ürünler*

Yarı Mamül Ürünler / Kütük

Levhalar

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 L718 API (UNS N07718) is a high-strength, corrosion-resistant nickel chromium iron molybdenum material that offers high strength and excellent corrosion resistance, particularly in H₂S and CO₂ environments. It is a precipitation hardenable alloy, the precipitation hardening effect is mainly achieved by additions of Niobium, Titanium and Aluminium. The ease and economy with which BÖHLER L718 API can be fabricated, combined with good tensile, fatigue, creep, and rupture strength, have resulted in its use in a wide range of applications. It has been widely recognised by the oil industry and it is now widely used in this field. BÖHLER L718 API offers outstanding weldability with resistance to post-weld cracking. It can be used in high temperatures as it maintains strength at elevated temperatures. Several conditions of BÖHLER L718 API are available and it is offered to the NACE/API 6A CRA versions at 120 / 140 ksi min yield as well as the 150 ksi high strength version. All tempers are suitable for sour service and can be used for pressure containing and pressure controlling equipment in corrosive environments. Typical applications include packers, pumps, connectors, and fasteners as well as gate valves, choke stems, tubing hangers and fire safe valves but also multiple downhole drilling & completions, nuclear and surface applications.

Erime rotası

VIM + VAR

Uygulamalar

- > Petrol ve Gaz
- > Kuyubaşı, Noel Ağaçları ve Manifoldlar (Boru askıları dahil), Kaçak Önleyiciler
- > Akış Hatları ve Bağlantı Flaşları
- > Kuyu Loglama Gereçleri
- > Kimya Endüstrisi (LNG, Üre dahil)
- > Kuyu Bitirme Gereçleri
- > Diğer Petrol ve Gaz + Kimya Tesisi Parçaları
- > Borusal Ürünler, Flaşlar, Fitingler
- > Kimya Tesisleri için Parçalar (LNG, FGD, Üre, LDPE tesisleri vs. dahil)
- > Heat Exchanger (TR)
- > Tespit Elemanları, Cıvatalar ve Somunlar
- > Sondaj Aletleri ve Parçaları
- > Vanalar ve Aktüatörler
- > Comps. for Equip. Below Ground (Boring, Shafts, etc.)

Teknik veriler

Malzeme Tanımı	Standartlar
Alloy 718API	Market grade
N07718	UNS
	API 6A CRA
	NACE MR0103 / ISO 17945
	NACE MR0175 / ISO 15156
	Others

Kimyasal Bileşim

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	Ti	Al	B	Fe	Pb	Bi	Ca	Mg
maks. 0,045	maks. 0,35	maks. 0,35	maks. 0,010	maks. 0,010	17,0 kadar 21,0	2,80 kadar 3,30	50,0 kadar 55,0	maks. 0,23	maks. 1,00	0,80 kadar 1,15	0,40 kadar 0,60	maks. 0,0060	REM	maks. 0,0010	maks. 0,00005	maks. 0,0030	maks. 0,0060

Refers to API Standard 6A CRA N07718 | Nb + Ta 4.87 to 5.20

Teslimat durumu

Solution annealed + precipitation hardened | 120k

Sertlik (HRC)	32 kadar 40
Çekme mukavemeti (MPa)	min. 1.034
Akma dayanımı (MPa)	827 kadar 1.000

Solution annealed + precipitation hardened | 140k

Sertlik (HRC)	34 kadar 44
Çekme mukavemeti (MPa)	min. 1.138
Akma dayanımı (MPa)	965 kadar 1.034

Solution annealed + precipitation hardened | 150k

Sertlik (HRC)	35 kadar 45
Çekme mukavemeti (MPa)	min. 1.207
Akma dayanımı (MPa)	1.034 kadar 1.207

Yuvarlak çubuklar

Çap* mm	
Haddelenmiş	
5,00	- 13,50
12,50	- 101,60
DÖVÜLMÜŞ	
101,70	- 355,60

* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 12.5 - 101.60 mm round bars.

Variant 140k is available in forged products only

More information regarding MOQ, lengths and tolerances upon request. Flat bars on request.

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.

Sheet & Plates: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact voestalpine BÖHLER Bleche GmbH & Co KG.

Semi-Finished Products: 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 Semi Finished Products 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.