

LEGHE A BASE NICHEL

Segmenti di applicazione

Petrolio e gas / CPI

Granulometria disponibile

Prodotti lunghi*

Prodotti semirifiniti / Billette

Lamiere

* I dati presentati si riferiscono esclusivamente ai prodotti lunghi. Si prega di osservare le spiegazioni dettagliate alla fine della scheda tecnica (pdf).

Descrizione del prodotto

BÖHLER L059 (2.4605/N06059) is a nickel-chromium-molybdenum material with particularly low contents of carbon and silicon, which has high mechanical strength and excellent corrosion resistance.

The most important properties of BÖHLER L059 are the excellent resistance to a wide range of corrosive media, both under oxidising and reducing conditions, the excellent resistance to chloride-induced pitting and crevice corrosion as well as the insensitivity to stress corrosion cracking and the excellent resistance to mineral acids such as nitric, phosphoric, sulphuric and hydrochloric acid and in particular to sulphuric/hydrochloric acid mixtures.

The alloy is therefore suitable for a wide range of applications in chemistry, petrochemistry, energy and environmental technology, e.g. Plant components for processes in organic chemistry with chloride-containing media, especially when using chloride-based catalysts, plant components in the fine chemicals and pharmaceutical industries, scrubbers, heat exchangers, flaps, fans and agitators for flue gas desulphurisation plants (FGD) in fossil-fuelled power stations and waste incineration plants, SO₂ scrubbers for marine diesel engines, components for seawater and concentrated brines, equipment and components for geothermal and sour gas applications, reactors for acetic acid and acetic anhydride, and hydrofluoric acid and sulphuric acid coolers and pipes in geothermal power plants. Due to the particularly low carbon and silicon content, the material does not tend to precipitate grain boundaries during welding or hot forming.

Optimum properties in terms of corrosion resistance are achieved in the clean, metallic bright state.

Percorso di fusione

VIM + VES o Aria fusa + VES

Applicazioni

- > Componenti per impianti chimici (tra cui LNG, FGD, Urea, LDPE, ecc.)
- > Industria chimica - generale
- > Valvole e attuatori
- > Altri componenti di petrolio e gas + IPC
- > Scambiatore di calore
- > Petrolio e gas, IPC e rinnovabili
- > Tubi, flange, raccordi, valvole
- > Industria della cellulosa e della carta / Stampa

Dati tecnici

Corrispondenze		Standard	
Alloy 59	Market grade	17744	DIN
2.4605	SEL	17752	
NiCr23Mo16Al	EN	B574	ASTM
N06059	UNS	B564	
		NACE MR0175 / ISO 15156	Others

Analisi chimica

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	Al	Fe
max. 0,010	max. 0,10	max. 0,5	max. 0,015	max. 0,010	22,0 a 24,0	15,0 a 16,5	REM	max. 0,50	max. 0,3	0,1 a 0,4	max. 1,5

Refers to ASTM B574 Alloy N06059

Condizioni di consegna

Ricotto in soluzione + temprato

Resistenza alla trazione (MPa)	min. 690
Resistenza allo snervamento (MPa)	min. 310

Barre tonde

Diametro* mm		
ROTOLATO		
5,00	-	13,50
12,50	-	101,60
FORGIATO		
101,70	-	355,60

* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 12.5 - 101.6 mm round bars.

More information regarding MOQ, lengths and tolerances upon request.

Le specifiche contenute in questo opuscolo non sono vincolanti e non devono essere considerate come promesse, ma solo come informazioni generali. Queste specifiche sono vincolanti solo se vengono espressamente poste come condizione in un contratto stipulato con noi. I dati misurati sono valori di laboratorio e possono discostarsi dalle analisi pratiche. Nella fabbricazione dei nostri prodotti non vengono utilizzate sostanze nocive per la salute o per lo strato di ozono.

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