

ALEACIONES BASE NÍQUEL

Application Segments

Oil & Gas/CPI

Formatos disponibles

Productos largos*

Productos semielaborados / en palanquilla

Chapas

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

Descripción

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.

Método de obtención

VIM + ESR or Airmelted + ESR

Aplicaciones

- > Componentes para plantas químicas (incl. GNL, FGD, urea, PEBD, etc..)
 - > Chemical industry - general (ES)
 - > Storage technology
- > Otros componentes de CPI, gas y petróleo
 - > Heat Exchanger (ES)
 - > Válvulas y actuadores
- > Productos tubulares, bridas, accesorios
 - > Industria del papel y celulosa / Impresión

Datos técnicos

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

Composición Química

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	Al	Fe
máx. 0,010	máx. 0,10	máx. 0,5	máx. 0,015	máx. 0,100	22,0 a 24	15,0 a 16,0	REM	máx. 0,50	máx. 0,3	0,1 a 0,4	máx. 1,5

Refers to ASTM B574 Alloy N06059

Estado de suministro

Solution Annealed + Quenched

Resistencia a la tracción (MPa)	mín. 690
Resistencia a la cesión (MPa)	mín. 310

Barras redondas

Diámetro*		mm	
FORZADO			
5,00	-	13,50	
12,50	-	101,60	
FORJADO			
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.

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

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.

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.

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