

ENGINEERING STEELS - CASE HARDENING STEELS

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Available Product Variants

Long Products*

Product Description

BÖHLER E108 is a 4%-Nickel-chromium-molybdenum steel for applications requiring high core strength, high toughness and for bigger dimensions. Hardness in carburized layer above 58 HRC. Service temperature max. 200°C. Non corrosion resistant.

Process Melting

Airmelted

Applications

- > Structural parts (Aerospace)
- > Aerospace
- > Other Aerospace Components

> Automotive

> Motorsport industry

Technical data

Material designation		Standards	
	Market	S82	BS
	grade		

Chemical composition (wt. %)

С	Si	Mn	P	S	Cr	Мо	Ni
0.14 to 0.18	0.15 to 0.40	0.25 to 0.55	max. 0.025	max. 0.020	1.0 to 1.4	0.20 to 0.30	3.8 to 4.3

Related to BS S82



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



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Delivery condition

max. 277 S82D, Bright bars for machining	
max. 277 S82B, bars for machining.	
max. 277 S82A, forging stock and bars for subsequent working	
	max, 277 S82B, bars for machining.

Round Bars and Wire Rod (if any)

Diameter		er	MOQ ex mill	Length			Tolerance
mm			kg	_LED			
5.01	T-	12.49	800	3.00	Τ-	4.00	IT h/k 11
12.50	-	55.00	800	3.00	-	4.00	IT h/k 11
55.01	1-1	69.00	1,200	3.00	-	4.00	IT h/k 11
69.01	-	72.00	1,000	3.00	-	4.00	IT h/k 11
72.01	-	82.00	1,150	3.00	-	4.00	IT h/k 11
82.01	-	120.00	1,400	3.00	-	4.00	IT h/k 11
120.01	-	140.00	1,400	3.00	-	5.00	IT h/k 14
			FOR	RGED			
140.01	-	203.20	1,400	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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