

ENGINEERING STEELS - CASE HARDENING STEELS

App	lication	Segments

Aerospace	Automotive
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Available Product Variants

Long Products*

Product Description

BÖHLER E108 is a 4%-Nickel-chromium-molybdenum steel in VAR quality 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. Compared to Airmelt and ESR quality the content of non-metalic inclusions and segregation is lower, the toughness properties and the fatigue properties transverse to grain flow direction are better.

Process Melting

Airmelted + VAR

Applications

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

> Automotive

> Motorsport industry

Technical data

Material designation		Standards		
S156	Market grade		S156	BS

Chemical composition (wt. %)

С	Si	Mn	Р	S	Cr	Мо	Ni
0.14 to 0.18	0.10 to 0.35	0.25 to 0.55	max. 0.015	max. 0.012	1 to 1.4	0.2 to 0.30	3.8 to 4.3

Related to BS S156



^{*)} 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

Annealed					
Hardness (HB) max. 277 S156A, forging stock bars for subsequent working					
Normalized, Tempered	may 277 LC156D bright have for machining				
Hardness (HB)	max. 277 S156D, bright bars for machining				
Normalized, Tempered					
Hardness (HB)	max. 277 S156B, bars for machining				

Round Bars and Wire Rod (if any)

D	Diameter		MOQ ex mill	Length		ıth	Tolerance	
	mm		kg	m				
	ROLLED							
12.50	-	55.00	1,300	3.00	T-	4.00	IT h/k 11	
55.01	T-1	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	
	FORGED							
140.01	-	203.20	2,200	2.00	-	5.00	IT h/k 11	

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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