

ENGINEERING STEELS - CASE HARDENING STEELS

Application S	egments											
Aerospac	е	А	utomotive									
Available Pro	duct Vari	ants										
Long Produ	cts*											
*) Presented data	a refer exclu	usively to	long products	s. Plea	se observe the	deta	ailed explana	ations	at the end	of the data sheet	(pdf).	
Product Desc	cription											
BÖHLER E108 is dimensions. Hard	a 4%-Nick ness in car	el-chromi burized la	ium-molybden ayer above 58	um ste HRC.	eel for applicati Service tempe	ons i	requiring hig re max. 200°	gh cor °C. N	e strength, l on corrosior	nigh toughness a n resistant.	nd for bigger	
Process Melti	ing											
Airmelted	d											
Applications												
,					rospace >				> Other Aerospace Components			
Technical data	a											
Material designa	ıtion		Sta	ndard	S							
	S82	Market grade			;	S82	BS	_				
Chemical con	nposition	(wt. %	<u> </u>									
	1	. (/	<u> </u>	1.		۱,		۔ ا		1	Lan	
C 0.14 to 0.18	Si 0.15 to 0	.40	Mn 0.25 to 0.55		P max. 0.025	S	ax. 0.020	1	o to 1.4	Mo 0.20 to 0.30	Ni 3.8 to 4.3	

Related to BS S82





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Delivery condition

Annealed				
Hardness (HB)	max. 277 S82D, Bright bars for machining			
Normalized, Tempered	may 277 L COOR have for machining			
Hardness (HB)	max. 277 S82B, bars for machining.			
Normalized, Tempered				
Hardness (HB)	ardness (HB) max. 277 S82A, forging stock and bars for subsequent working			

Round Bars and Wire Rod (if any)

Diameter		ter	MOQ ex mill		Lenç	ıth	Tolerance		
mm			kg		m				
ROLLED									
5.01	-	12.49	800	3.00	-	4.00	IT h/k 11		
12.50	-	55.00	800	3.00	-	4.00	IT h/k 11		
55.01	-	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		
FORGED									
140.01	-	203.20	1,400	2.00	T-	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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