

Steel for gas cylinders and gas vessels

DIN, NFA, EN, UNI, JIS Steel for gas cylinders and gas vessels, Steel for gas cylinders and gas vessels plate, Steel for gas cylinders and gas vessels sheet, Steel for gas cylinders and gas vessels coil, Steel for gas cylinders and gas vessels supplier

Steel for gas cylinders and gas vessels description

Steel for gas cylinders and gas vessels, just as its name implies, is the Hot-rolled structural steel plate and sheet for making gas cylinders and gas vessels. Steel for gas cylinders and gas vessels has excellent properties for deep drawing and welding and meets all the performance requirements for this application.

Steel for gas cylinders and gas vessels Application

These steel grades are characterised by a minimum yield strength of 245 - 355 MPa and by good weldability. The user of these steel grades must make sure that his calculation, design and processing methods are appropriate for the material. The steel grades of this series are used for manufacturing gas cylinders by welding cold-formed parts together and normalizing the finished cylinder.

The main grade of Steel for gas cylinders and gas vessels are :

Material #: 1.0111, 1.0243, 1.0437, 1.0557

EN 10120: P245NB, P265NB, P310NB, P355NB

DIN 17155: H I, H II, 17 Mn 4, 19 Mn 6

NFA 36-211: BS 1/2/3/4

UNI 7355: Fe E 24 KR, Fe E 27 KR, Fe E 31 KR, Fe E 35 KR

BS 5045: Type A/B/C/D

Bebon steel — The most professional exporter on weathering resistant steel

Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:http://www.shipbuilding-steel.com

http://www.bebonchina.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.

UNE 36129: AE 235 KR, AE 265 KR, AE 345 KR

JIS G3116: SG 255 , SG 295, SG 325, SG 365.

Steel for gas cylinders and gas vessels equivalent grades

Material #	EN	DIN	NFA 36-	UNI 7355	BS 5045	UNE	JIS G3116
	10120	17155	211			36129	
1.0111	P245NB	H I	BS 1	Fe E 24 KR	Type A	AE 235 KR	SG 255
1.0243	P265NB	H II	BS 2	Fe E 27 KR	Type B	AE 265 KR	SG 295
1.0437	P310NB	17 Mn 4	BS 3	Fe E 31 KR	Type C	AE 345 KR	SG 325
1.0557	P355NB	19 Mn 6	BS 4	Fe E 35 KR	Type E		SG 365

Steel for gas cylinders and gas vessels Supply Size

Thickness: -

Mill finish: 1.47 - 5.00mm

Pickled: 1.50 - 5.00mm

Width: -

Mill finish: 710 - 2070mm

Pickled: 735 - 2070mm

Steel for gas cylinders and gas vessels Delivery state

Hot Rolled, Cold Rolled, Normalized, Quenched, Tempering, Thermal Mechanical Control Process (TMCP), Electroslag Remelting Technical, HIC test.

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Steel for gas cylinders and gas vessels Services

Cutting, Painting, shot blast, and The third party inspection in DNV, BV, LR, GL, ABS, CCS , SGS, and others in super thick ship steel plate.

Steel for gas cylinders and gas vessels Chemical composition

Grade	C	Si	Mn	P	S	N 2)	Altotal1)	Ti	Nb
	max.	max.	min.	max.	max.	max.	min.	max.	max.
P245NB	0,16	0,25	0,30	0,025	0,015	0,009	0,020	0,03	0,050
P265NB	0,19	0,25	0,40	0,025	0,015	0,009	0,020	0,03	0,050
P310NB	0,20	0,50	0,70	0,025	0,015	0,009	0,020	0,03	0,050
P355NB	0,20	0,50	0,70	0,025	0,015	0,009	0,020	0,03	0,050

1) The aluminium content may in part be replaced by $\leq 0,050$ % Nb and /or $\leq 0,03$ % Ti.

2) With a ratio of $Al_{total} / N \geq 2,2$ or if Nb or Ti are added, the nitrogen content may be $\leq 0,012$ %.

Steel for gas cylinders and gas vessels Mechanical properties1)

Grade	Min. yield strength	Tensile strength	Min. total elongation [%]	
			L0 = 80 mm	L0 = 5,65 $\sqrt{S_0}$
	MPa	MPa	e2) < 3	e2) ≥ 3
P245NB	245	360 - 450	26	34
P265NB	265	410 - 500	24	32
P310NB	310	460 - 550	21	28
P355NB	355	510 - 620	19	24

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- 1) Transverse samples
- 2) Nominal thickness e [mm]

Bebon International is a global steel supply and stockholding company. Partnerships integrating the resources of the China's most technically advanced steel mills enable Bebon International to provide a single competitive source for the distribution of steel products worldwide.

Bebon International offer premium quality Steel for gas cylinders and gas vessels Plates. These Steel for gas cylinders and gas vessels plates have consistent and controlled properties, designed for withstanding the high pressure for gas cylinders and gas vessels.

Bebon International has one of the widest steel plate product ranges in the world. Whether you are a designer, contractor or fabricator you will find our product range both modern and extensive. Steel for gas cylinders and gas vessels offered by Bebon is in very high quality to support the requirements of those engaged in large projects.

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