



Steel for gas cylinders and gas vessels

Steel for gas cylinders and gas vessels 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. Steel for gas cylinders and gas vessels 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

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

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

Material #	EN 10120	DIN 17155	NFA 36-211	UNI 7355	BS 5045	UNE 36129	JIS G3116
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

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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>

<http://www.steel-plate-sheet.com>

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