

	SARA ENGINEERING SPECIFICATION	
	Section: SES 26 – 794	
	Issue: "A"	REV- "0"
	Effective Date: 01.12.2015	Page: 1 of 3

**STRUCTURAL STEEL PIPE AND TUBING AS PER ASTM A106
OR A500 GRADE B H2S SERVICE**

Rev	Reason of change	Date	Made By	Reviewed By	Approved By	Status
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1.0 SCOPE

- 1.1 This specification covers seamless and welded low carbon structural steel pipe and tubing.
- 1.2 For design purposes, the materials described herein should be treated as 35 ksi (241 MPa) minimum yield strength for A106 plate and 50 ksi (345 MPa) for A500 Grade B/C tubing.

2.0 APPLICABLE SPECIFICATIONS

- 2.1 ASTM A106 Grade B
- 2.2 ASTM A500 Grade B and Grade C

3.0 CHEMISTRY REQUIREMENTS

- 3.1 The heat and product analysis shall conform to one of the compositions listed below. Values are weight percentages.

	A106 B	A500 Grade B		A500 Grade C	
		Heat	Product	Heat	Product
Carbon, max	0.30	0.26	0.30	0.23	0.27
Manganese	0.29 - 1.06	1.35, max	1.40, max	1.35	1.40
Phosphorus, max	0.025	0.025	0.025	0.035	0.045
Sulfur, max	0.025	0.025	0.025	0.035	0.045
Silicon, min	0.10	-	-	-	-

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4.0 MECHANICAL PROPERTIES

- 4.1 Minimum yield strength for A106 plate shall be 35 ksi (241 MPa) and 50 ksi (345MPa) for A500 Grade B/C tubing.
- 4.2 The material shall have a maximum hardness of 237 HBW.

5.0 INSPECTION

- 5.1 Material shall be inspected for surface imperfections such as seams, laps or tears. Defects of this type shall be removed by grinding.