
 <small>A JOULON COMPANY</small>	SARA ENGINEERING SPECIFICATION	
	Section: SES 26 – 849	
	Issue: “A”	REV- “1”
	Effective Date: 06.12.2018	Page: 1 of 2

MATERIAL SPECIFICATION FOR PIPE /TUBING OF API SPEC 5CT GRADE P110

Rev	Reason of change	Date	Made By	Reviewed By	Approved By	Status
0	Initial release	24-08-2018	MN	AS	KKD	Released
1	Hardness requirement deleted & Elongation amended to 13% min. from 15%.	06-12-2018	MN	AS	KKD	Released

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1.0 SCOPE

- 1.1 This specification covers API spec 5CT grade P110 seamless and welded steel pipe and tubes.

2.0 APPLICABLE SPECIFICATIONS

- 2.1 API SPEC 5CT

3.0 CHEMISTRY REQUIREMENTS

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

	P110
Carbon	0.26 – 0.35
Silicon	0.17 – 0.37
Manganese	0.40 – 0.70
Phosphorus, max	0.020
Sulfur, max	0.010
Chromium	0.80 - 1.10
Nickel, max.	0.20
Copper, max	0.20
Molybdenum	0.15 – 0.25

- 4.0 MECHANICAL PROPERTIES:** Mechanical property requirements are listed below. Each heat shall be tested and the listed mechanical properties shall be reported.

<u>MECHANICAL PROPERTIES</u>	<u>RANGE</u>
TENSILE STRENGTH, PSI	1,25,000 Min.
YIELD STRENGTH, PSI	75,000 Min.
ELONGATION IN 2” GAGE LENGTH	13% Min.

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.