

ASTM A53 Grade A - Technical Datasheet

1. Chemical & Mechanical Properties

C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)
0.25 max	0.95 max	0.05 max	0.045 max	0.40 max	0.40 max	0.40 max	0.15 max	0.08 max	205 min	330 min	25 min

2. Equivalent / Alternative Grades

Parameter	API 5L Grade A (L210)	EN 10255 S195T	JIS G3452 SGP
Standard	ISO 3183 / API 5L	EN 10255	JIS G3452
C (%)	0.22 max	0.20 max	—
El (%)	28 min	20 min	30 min
Mn (%)	0.90 max	1.40 max	—
P (%)	0.03 max	0.035 max	0.040 max
S (%)	0.03 max	0.03 max	0.040 max
Tensile (MPa)	331 min	320-520	290 min
Yield (MPa)	207 min	195 min	205 min

3. Common Applications

- Low-pressure water, steam, gas & air lines
- Fire sprinkler piping
- Structural and light mechanical uses

4. Standard Conformance

ASTM A53 / ASME SA53

5. Disclaimer

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