

ASTM A210 and ASME SA210 American Standard (Seamless Medium Carbon Steel Pipe for Boiler and Superheater)

Standard:

ASTM A210/A210M/ASME SA-210/SA-210M

Application:

It is applied to seamless medium carbon steel pipe for boiler pipe and boiler flue pipe with the minimum thickness, including safety end, vault, supporting pipe and superheater pipe.

Grades of Main Steel Pipe:

A-1 and C, and other grades of steel pipe are provided based on negotiations.

Mechanical Properties

Standard	Grade	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)
ASTMA210	A-1	≥415	≥255	≥30
ASME SA210	C	≥485	≥275	≥30

Chemical Composition

Standard	Grade	Chemical Composition Limits, %									
		C	Si	Mn	P	S	Cr	Mo	Cu	Ni	V
ASTM A210	C	≤0.35	≥0.10	0.29~1.06	≤0.035	≤0.035	/	/	/	/	/
ASME SA210	A-1	≤0.27	≥0.10	≤0.93	≤0.035	≤0.035	/	/	/	/	/

Remarks

HR: hot rolled	CW: cold worked	SR: stress relieved
A: annealed	N: normalized	HF