

ASTM A53 American Standard (Nonplating, Hot-dipped, Galvanized Welding and Seamless Nominal Steel Pipe)

Standards:

ASTM A53 / A53M / ASME SA-53 / SA53M

Application:

It is mainly applied to stressed and pressure parts and pipelines of steam, water, gas and air for general services.

Main Steel Pipe Grades:

Grade A and B. Other grades of steel pipe are provided based on negotiations.

Mechanical Properties

Standard	Grade	Tensile strength (MPa)	Yield strength (MPa)
ASTM A53/ ASMS SA53	A	330	205
	B	415	240

Chemical Composition

Standard	Grade	Chemical Composition Limits, %									
		C	Si	Mn	P	S	Cu	Ni	Mo	Cr	V
ASTM A53/ ASMS SA53	A	0.25	/	0.95	0.05	0.06	0.40	0.40	0.15	0.40	0.08
	B	0.30	/	1.20	0.05	0.06	0.40	0.40	0.15	0.40	0.08

Remarks

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