Seamless Ferritic Alloy Steel Pipe for High Temperature Service

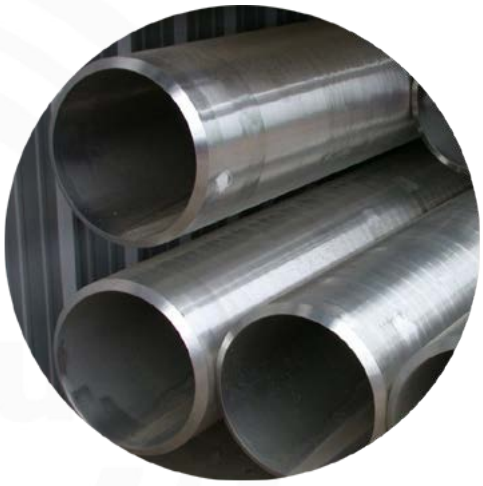
Standard & Material

ASTM A335/A335M ASME SA335 P12

It covers nominal wall and minimum wall seamless ferritic alloy steel pipe intended for high temperature service. Pipe ordered to ASTM A335/A335M shall be suitable for bending, flanging (vanstoning), and similar forming operations, and for fusion welding. Selection will depend upon design, service conditions, mechanical properties, and high temperature characteristics.

Chemistry Composition

C, % 0.05-0.15
Mn, % 0.30-0.61
P, % 0.025 max
S, % 0.025 max
Si, % 0.50 max
Cr, % 0.80-1.25
Mo, % 0.44-0.65



Mechanical Properties

Tensile Strength, MPa 415 min
Yield Strength, MPa 220 min
Elongation, % 30 min

Wall Thickness: min wall thickness or average wall thickness
Developed Length: max 30 meters each length, +10mm/-0mm

Manufacture: pipes shall be made by the seamless process and shall be either hot finished or cold drawn with the finishing treatment.
Heat Treatment: the tubes are heat treated by full or isothermal anneal, normalize and temper at a temperature of 650°C or higher.
Inspection & Test: chemistry composition analysis, tensile test, hardness test, flattening test, flaring test, NDT, surface inspection and dimension check.

Further Process: U bending tubes, fin tubes, studded tubes

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