ASTM A192

●Production Standard of ASTM A192
●Dimensions and Sizes of ASTM A192
●Chemical Composition of ASTM A192
●Mechanical Properties Tensile Strength and Yield Strength of ASTM A192

●Production Standard of ASTM A192

●ASTM A192

The ASTM A192 standard was developed by the American Society for Testing and Materials (ASTM) for seamless carbon steel boiler and superheater tubes in high pressure service. These seamless carbon steel boiler and superheater tubes are crafted with precision, ensuring minimum wall thickness for optimal performance. ASTM A192 standard pipes are ideal for high-pressure applications, conforming to the stringent chemical composition requirements for carbon, manganese, phosphorus, sulfur, and silicon.

●Dimensions and Sizes of ASTM A192

Outside Diameter:	1⁄2 in. to 7 in. [12.7 to 177.8 mm]
Wall Thickness:	0.085 to 1.000 in. [2.2 to 25.4 mm]
Tubing having other dimensions may be furnished, provided such tubes comply with all other requirements of this specification.	

●Chemical Composition of ASTM A192

Chemical Composition	
Carbon, %	0.06–0.18

Manganese, %	0.27–0.63
Phosphorus, max, %	0.035
Sulfur, max, %	0.035
Silicon, max, %	0.25

●Mechanical Properties Tensile Strength and Yield Strength of ASTM A192

Tensile Properties	
Tensile strength, min, ksi [MPa]	47 [325]
Yield strength, min, ksi [MPa]	26 [180]
Elongation in 2 in. or 50 mm, min, %	35