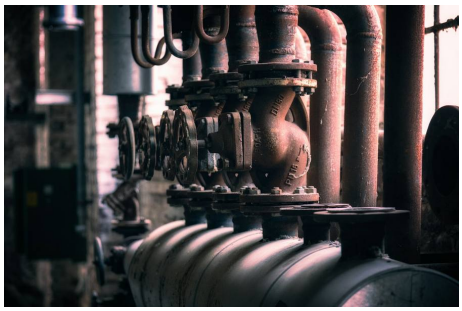
Boiler Tubes

Water wall, superheater and reheater tubing



Boiler tubing for water wall, economiser, superheater and reheater service, supplied to ASTM A192, A210, A213 and A335 in carbon, Cr-Mo and austenitic grades. Tube is selected against the metal temperature and steam-side oxidation rather than the design pressure alone, with hardness, grain size and PWHT records where the grade demands them.

Stock status: Project supply - Typical lead time: Standard sizes 2 - 4 weeks; alloy grades 6 - 10 weeks mill indent

Key features

- Grade matched to the design metal temperature, not just the pressure
- Carbon, Cr-Mo, Grade 91 / 92 and austenitic grades from one source
- Hardness and heat treatment records on the creep-strength-enhanced grades
- Matching A335 header pipe, fittings and flanges supplied together

Types & configurations

Type	Specification
Carbon steel boiler tubes	ASTM A192 / A210 Gr A1 and C1 for water wall and economiser sections
Cr-Mo alloy tubes	ASTM A213 T11 / T12 / T22 for superheater and reheater duty
Grade 91 / 92 tubes	ASTM A213 T91 / T92 for supercritical steam with hardness and PWHT control
Austenitic superheater tubes	ASTM A213 TP304H / TP321H / TP347H and Super 304H for the hottest passes
Nickel alloy sections	Alloy 800HT and 617 for advanced ultra-supercritical headers and pendants
Seamless alloy pipe	ASTM A335 P11 / P22 / P91 for main steam, hot reheat and header piping

Specifications

Property	Value
Size range	19 mm to 139.7 mm OD, 2 mm to 12 mm wall, lengths to 24 m
Condition	Normalised and tempered or solution annealed depending on grade
Testing	Hydrostatic, ultrasonic or eddy current, flattening, flaring and hardness survey
Grade 91 control	Hardness after PWHT, normalising and tempering temperatures recorded on the certificate
Documentation	EN 10204 3.1 or 3.2, PMI, heat traceability and inspection release notes

Standards

ASTM A192, ASTM A210, ASTM A213, ASTM A335, ASME Section I, EN 10216-2, EN 10204 3.1 / 3.2

Industries served

Power Generation, Petrochemical, Refining, Waste to Energy, Fertiliser, EPC Contractors

Typical applications

- Water wall and economiser sections
- Superheater and reheater pendants
- Main steam and hot reheat piping
- Waste heat recovery and HRSG sections
- Waste-to-energy and biomass boilers
- Fired heater coils in refineries