Heat Exchanger Tubes

Shell and tube bundles supplied to the TEMA sheet



Seamless and welded heat exchanger tubing supplied against your TEMA datasheet or bundle drawing. We quote on grade, OD, average or minimum wall, length, tolerance class and finish, and the tube is supplied cut to length, straight or U-bent, eddy current and hydrostatically tested with the heat traceable on every piece.

Stock status: Project supply - Typical lead time: Stock sizes 1 - 2 weeks; bundles quoted on the datasheet

Key features

- Quoted directly from your TEMA sheet or bundle drawing
- Grade selected against the shell-side and tube-side fluids, not just the pressure
- Cut to length, straight or U-bent with post-bend testing
- Eddy current, hydro and PMI reports with full heat traceability

Types & configurations

Type	Specification
Stainless steel tubes	ASTM A213 / A249 in 304L, 316L, 316Ti, 317L, 321 and 310S, 6 - 114 mm OD
Duplex & super duplex tubes	ASTM A789 / A790 in 2205 (S31803 / S32205) and 2507 (S32750) for chloride duty
Nickel alloy tubes	ASTM B163 / B407 in Alloy 800, 800HT, 825, 625 and 617 for corrosive and hot service
Cr-Mo alloy tubes	ASTM A213 T11 / T12 / T22 / T91 for elevated temperature exchangers
Titanium tubes	ASTM B338 Grade 1 / 2 for seawater-cooled condensers and desalination
Cupro nickel tubes	ASTM B111 / B466 in 90/10 (C70600), 70/30 (C71500) and 66/30/2/2 (C71640) for seawater and brine duty
U-bent tubes	U-bends to the bundle drawing with bend radius stress relief and post-bend testing

Specifications

Property	Value
Size range	6 mm to 114 mm OD, 0.5 mm to 8 mm wall, lengths to 24 m
Wall basis	Average wall or minimum wall to the datasheet, close OD and eccentricity tolerances
Testing	Hydrostatic or eddy current per ASTM, ultrasonic, flattening, flaring and reverse bend
Finish	Annealed and pickled, bright annealed (BA) or polished internal finish on request
Documentation	EN 10204 3.1 or 3.2, PMI, dimensional report and third-party inspection release

Standards

ASTM A213 / A249, ASTM A789 / A790, ASTM B163 / B407, ASTM B338, TEMA R / C / B, ASME Section VIII Div 1, EN 10216-5, EN 10204 3.1 / 3.2

Industries served

Oil & Gas, Petrochemical, Refining, Power Generation, Water & Desalination, Chemical Processing, EPC Contractors

Typical applications

- Shell and tube heat exchangers and coolers
- Surface condensers and feedwater heaters
- Desalination (MSF / MED) heat recovery sections
- Refinery and petrochemical process exchangers
- Gas coolers, chillers and district cooling plant
- Air-cooled exchanger bundles