

C70600 | 90-10 COPPER-NICKEL

PIPE & TUBE FOR MARINE + DEFENSE

Qualification-led sourcing, controlled production and documented release for demanding shipboard seawater service.

PROGRAM OUTCOME

Repeat, traceable project deliveries

PROGRAM SNAPSHOT

MARKET

Shipbuilding and U.S. defense programs

SERVICE

Seawater cooling, condensers and heat exchangers

MATERIAL

UNS C70600 / 90-10 Cu-Ni

SCOPE

Supplier qualification through final delivery

PRODUCT

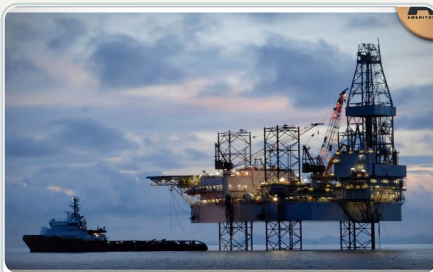
Seamless pipe, tube and project-specific forms

CONTROL

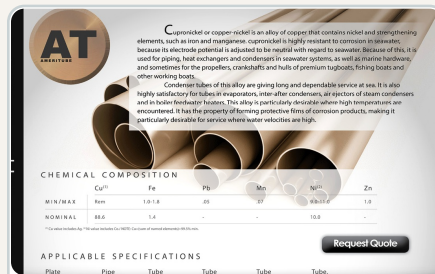
Lot traceability, inspection and documentation

THE REQUIREMENT

Marine and defense buyers required C70600 products capable of entering corrosion-critical seawater systems with consistent dimensions, verified material identity and complete release documentation. Each order had to translate end-user drawings and procurement clauses into an auditable manufacturing and inspection plan.



MARINE AND OFFSHORE SERVICE



C70600 ALLOY BROCHURE DETAIL

AMERITUBE RESPONSE

One controlled path

- Requirements review
- Qualified production source
- Inspection + NDE plan
- Traceable release package

ENGINEERING BASIS

C70600 is a nominal 90-10 copper-nickel alloy with iron and manganese additions. It is widely selected for marine piping and heat-transfer service because it combines seawater corrosion resistance, fabricability and reliable joining performance. Final suitability is established by the governing drawing, code and operating envelope.

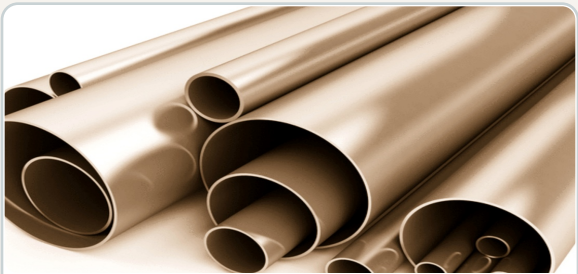
CONTROL AREA	TECHNICAL BASIS	VERIFICATION / RELEASE EVIDENCE
Material	UNS C70600; temper/condition defined by purchase order	Heat/lot-linked material certification and chemistry review
Product standard	ASTM B466/B466M or ASME SB-466 for seamless pipe/tube; ASTM B111/B111M for condenser/heat-exchanger tube when specified	Revision and supplementary requirements confirmed at contract review
Dimensions	OD or NPS, wall/schedule, length, straightness, end finish and tolerances	Calibrated dimensional inspection with recorded acceptance
Integrity testing	Hydrostatic, pneumatic, eddy-current or ultrasonic examination as required by product form and order	Test reports tied to the manufacturing lot
Traceability	Heat/lot identity maintained through processing, inspection, marking and packing	MTRs, inspection reports, packing list and certificate of conformance

EXECUTION CONTROLS

- Contract review converts drawings, defense clauses and application requirements into a controlled traveler and inspection plan.
 - Qualified sources and incoming certification checks establish material identity before release to production.
 - Forming controls address bend radius, ovality, wall thinning, surface condition and dimensional repeatability where applicable.
- Clean handling, protected ends and project-specific packaging reduce contamination and transit damage before installation.
 - Hold points and third-party or customer surveillance can be incorporated when required by the purchase order.
 - Final release reconciles traceability, inspection results, marking, quantities and documentation before shipment.



CONFIRMED C70600 PIPE INVENTORY



MARINE PIPE PRODUCT RANGE

RESULT

Accepted deliveries, repeat project experience and a documented supply path for marine and defense applications.