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Tungum Alloy UNS C69100 Tubing For Marine Systems

Naval marine applications:

1) Hydraulic ring mains.
2) Pneumatic ring mains.
3) Steering gear/stabilisers - hydraulic control & actuation.
4) Deck winch and lifeboat davit system pipework.
5) R.A.S. (refuelling at sea) rig control lines.
6) Castings and bar for non-magnetic engine mounts.
7) Strip material for "J"-strap resilient equipment mountings.
8) Dive system pipework.
9) Aircraft lifts and ammunition hoists.
10) Gun & missile control hydraulics and pneumatics.

Commercial marine applications:

1) Deck crane hydraulic lines.
2) Winch, capstan and lifeboat davit systems.
3) Hatch cover and access door systems.
4) Bow visor, bow & stern door and ramp gear outfits.
5) Trawl system hydraulics lines on fishing vessels.
6) Cargo access ramp gear controls.

Tungum specified for the following benefits:

- Superior corrosion resistance in seawater and its environment.
- High strength-to-weight ratio. (reduces deck weight, lowers critical centre of buoyancy).
- High resistance to shock and vibration.
- Very low magnetic signature - particularly essential for military applications such as minesweepers.
- Lasting clean bore properties - essential for continuous naval operations.
- Ease of manipulation and installation. No hot-work necessary.
- Low cost alternative to more expensive, stainless steel alloys

Approvals & Accreditations:

- DNV GL – Det Norske Veritas ISO 9001
- ASME – American Society of Mechanical Engineers Section 1, VIII, B31.1 & B31.3 Code Cases
- USCG – United States Coast Guard
- NORSOK – M-650 Qualification of Manufacturers of Special Materials
- ABS – American Bureau of Shipping Type Approval
- IMCA – International Marine Contractors Association – Document D012 – approved for use in Oxygen systems
- BAM – Federal Institute for Gaseous Oxygen Service, tested in accordance with ASTM G124-10 (2010)
- Lloyds Register of Shipping