



Tungum Alloy UNS C69100 Tubing For Industrial & Land Based Energy Applications

Facility applications:

- 1) High pressure gas storage/distribution systems.
- 2) Pneumatic test cells, with associated control system.
- 3) Gas cylinder manifolds.
- 4) Gas cylinder filling deck systems.
- 5) High pressure gas trailer outfits.
- 6) Wind tunnel services.
- 7) Instrumentation lines throughout the facility.
- 8) Pressurized fire detection lines.

Note: Some of the systems listed above operate with any, or all of the common industrial gases, including, but not restricted to:

Air, Argon, Carbon Dioxide, Helium, Hydrogen, Nitrogen and Oxygen

Tungum specified for the following benefits:

- Excellent thermal characteristics to combat the threat of combustion / explosion due to adiabatic compression of oxygen.
- Superior long-term resistance to marine corrosion when facility located close to shore-line.
- High strength.
- Cryogenic strength is relatively unchanged compared to room temperature properties in low temperature liquid gas applications.
- High resistance to shock and vibration in cyclical application such as valves.
- Inherent safety - Spark Proof characteristics.
- Ease of manipulation and installation.
- Low cost alternative to more expensive stainless steel alloys, further decreasing asset lifetime costs.
- Extended life without maintenance.
- Compatible and approved with all industry recognized tube fittings.

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