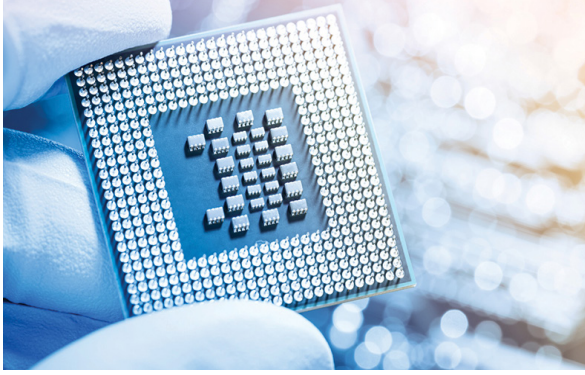


OXYGEN CLEANED & CAPPED TUBING



Special cleaning in oxygen service is not only important for cleanliness but is also critical for safety. In order to handle the flow of oxygen safely, it is important to ensure that the path through which the gas will travel is free from particulates and lubricants that can lead to unintentional contamination. Oxygen cleaned and capped tubing has been specially prepared in a clean room to support product purity and eliminate contamination potential.

CLEANING SPECIFICATIONS

CGA G-4.1, ASTM G93-03, ASTM A380

SIZE RANGE

(316/L)

Outside Diameter (OD)	Wall Thickness
.125"–1.000"	.028"–.065"

OXYGEN CLEANING PROCESS

To meet the ASTM and CGA requirements, our products are cleaned for oxygen service produced through a controlled series of process steps. An initial inspection is performed to identify any significant contaminants. The product is then meticulously cleaned and/or passivated, rinsed, and dried to ensure removal of even the slightest debris. Immediately upon completion of a final inspection, the product is capped and ultimately bagged while still inside the clean room environment to ensure the highest level of cleanliness and prevent post-cleaning contamination.

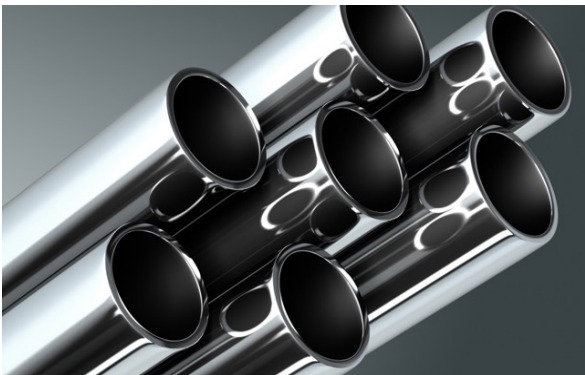
OXYGEN CLEANED MATERIAL IN STOCK

PAC Stainless holds a stock of 316/L and Alloy 400 domestic tubing cleaned and capped for oxygen service. If we do not have what you are looking for in stock, just ask. All tubing, coils, pipe, and fittings offered can be oxygen cleaned as a special order.

TYPICAL APPLICATIONS

Semiconductor Fabrication
Clean Room Applications
Oxygen Enriched Environments
Gas Chromatography

ELECTROPOLISHED (EP) TUBING



For applications with surface finish requirements well beyond the quality realized in a standard mill finish, PAC maintains an inventory of electropolished tubing (EP) in diameters ranging from 1/8" through 1". Through submersion in an electrically charged electrolyte solution bath, a smooth uniform surface is created by dissolving imperfections. This process removes any contamination on, or just below, the tube's surface and passivates it, bolstering the corrosion resistance of the steel.

PRODUCT SPECIFICATIONS

ASTM A269, A213 / ASME SA213 (SEAMLESS)

SIZE RANGE

Outside Diameter (OD)	Wall Thickness
.125"–1.000"	.028"–.065"

CERTIFIED CLEANLINESS

The pharmaceutical, petrochemical, food & beverage and semiconductor industries all contain processes where fine smoothing of the tube is critical for heightened cleanliness, the removal of occluded gases, or friction reduction imperatives.

Stocked in a 316/316L chemistry with a maximum hardness of RB 90, the surface finish of the tube internal surface is certified to have a maximum roughness of 10 Ra micro-inches.

In ISO Class 4 clean room conditions, each tube is purged with ultra high purity (UHP) nitrogen and then capped and double bagged. Certification qualifying the tubing's production standards, chemical composition, material traceability, and maximum surface roughness is provided for all material.

TYPICAL APPLICATIONS

Semiconductor Fabrication
Food & Beverage Industries
Pharmaceutical Manufacturing
Petrochemical Industries