



HIGH PURITY TECHNOLOGY, INC.

50 PERSHING AVENUE * P.O. BOX 870

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GENERAL PRODUCT SPECIFICATIONS:

HP SERIES 5

Material 1/8" to 4.0" O.D. to be domestic 316L, cold drawn, bright annealed with the sulfur content between .005 to .017 percent. Material between 1/8" and 1.0" will be seamless. All tube and fittings must be manufactured from and shall conform to the following specifications:

ASTM A269/A632 (less than 1/2" O.D.)

ASTM A269/A213 (1/2" O.D. & larger)

ASTM A479 (bar stock)

(ASTM A270 is optional)

ASME BPE SFT4

ASME SA213

Tubing over 1.0" O.D. will conform to the same specifications except to be of welded seam construction. Consult H.P.T. for welded material options for sizes 1/2" to 1.0" and for seamless material options for sizes greater than 1.0".

Tube O.D. is mill finish and identifies manufacturer, size, wall thickness, alloy, heat number and lot identification number. Standard product sizes are defined in the product dimensional specification section of the H.P.T. catalog.

Standard product I.D. on sizes 1/8" to 1-1/2" is 10RA and from 1-1/2" to 4.0" is 15RA, free of scale, slag, weld spatter, rust and other foreign matter. Consult H.P.T. for other options.

Final cleaning of the product I.D. is performed in a Class 100 Clean Room (Federal Standard # 209). The cleaning process consists of thermocouple cleaning using an aqueous degreaser and deoxidizer solution prepared using heated deionized water. This process is followed by a heated deionized water rinse and a final rinse with ambient deionized water (18 megohm). The final rinse effluent is monitored for a minimum of 16 megohm resistivity. The product is then purged dry with filtered (0.1 micron) cryogenic nitrogen, with moisture less than 1 PPM.

Completed tubes are capped over a mylar patch. The products are then placed in double 6 mil polyethylene bags. Bulk bagging, (five tubes/bag) is standard for quantities over 200 feet.

The products are labeled as "Series 5 Electropolished". Additional data can be added based on specific customer requirements.

A product certification will be provided with each shipment. The certification will include the physical and chemical characteristics by the size and heat number of the product, the cleaning compliance certification and the RA.

High Purity Technology, Inc. certifies that Class 1 or Class 2 ozone depleting chemicals are not utilized in the processing of Series 5 products.