BHS POCKET LEAF FILTER 400-TANTALINE
RENTAL & PURCHASE QUOTATION

SPECIFICATIONS

1. All wetted parts to be Tantaline-treated for maximum corrosion resistance
2. Corrosion resistance shown on pages 4 – 5
3. Filter area: 20 cm^2
4. Process Volume: 400 ml
5. Jacket Volume: 200 ml
6. Operating Pressure Vessel: 6 barg/FV (maximum)
7. Operating Pressure Jacket: 4 barg
8. Maximum cake thickness: 150 mm
9. Design temperature Vessel: 200 degrees C
10. Design temperature Jacket: 200 degrees C
11. Dimensions: 24 inches tall x 5 inches wide
12. Weight (empty): 5.2 kg

COMMERCIAL:

Purchase Price:	**$11,556.00** **Shipment: 6 – 8 weeks ARO**
Weekly Rental:	**$500 / week with a minimum of a two week rental** Lease term begins when filter arrives onsite and ends when rental filter is picked up for return shipment back to Lessor. This is a week-to-week lease and not a sale. Title remains at all times with Lessor (BHS-Sonthofen Inc.). **Shipment: 6 – 8 weeks ARO**
Payment Terms:	100% due at time of invoicing at the end of the rental period
Spare Parts:	Any spare parts, such as seals required during the rental period will be ordered by the Lessee through BHS-Sonthofen Inc. Costs for the spare parts will be the responsibility of the Lessee.
BHS Assistance:	BHS process engineers are available for training, process testing, etc. at "actual expenses" only
Validity:	Through calendar year 2018
Rental Period:	To be agreed
Dispatch:	All shipping expenses and risk of loss to/from Lessor's designated points are Lessee's sole responsibility.
Terms:	BHS-Sonthofen Inc., "Terms and Conditions of Sales and Service"
Cleaning Procedures:	To be provided by Lessee including MSDS sheets. The rental unit is to be cleaned with zero residual product.
Installation:	Equipment will be delivered to the client's site. Client is responsible for installation and all process connections and piping.

Use and Maintenance: Lessee will use the Equipment only in accordance with Lessor's operating, maintenance and safety instructions and, at its expense, will keep the Equipment in good repair with reasonable wear and tear expected, replacing all parts as necessary with spare parts purchased from Lessor.

Warranty: The Equipment is leased AS IS. Lessor does not extend any warranty, express or implied, including the implied warranties of title, fitness for a particular purpose and merchantability.

Liability and Indemnification: Lessor shall not be liable in damages to Lessee for any amount for any reason. Lessee shall indemnify and, at Lessor's request, defend Lessor against any and all liability and expense, including attorneys' fees, incurred as a result of any claim arising out of or related to Lessee's use of the Equipment.

Insurance and Risk: All risk of loss or damage is Lessee's responsibility. Lessee shall insure the Equipment against loss and liability for its Replacement Value and not less than $12,000.00 respectively, and shall have Lessor named as loss payee/additional insured as appropriate.

Remedies on Default: Lessor may enter on Lessee's premises and repossess the Equipment at any time in the event Lessee fails to observe any obligation hereunder in addition to any other remedy available.

Miscellaneous: Lessee may not assign or sublet this Agreement. This is the complete agreement between the parties. All disputes shall be governed by North Carolina and adjudicated exclusively in the North Carolina General Courts of Justice, Superior Court Division, Charlotte, NC and each party consents to its jurisdiction.

Agreed to by:
Barry A. Perlmutter

BHS-Sonthofen Inc.	Company:
Barry A. Perlmutter,	By:
President & Managing Director	Title:
Date:	Date:

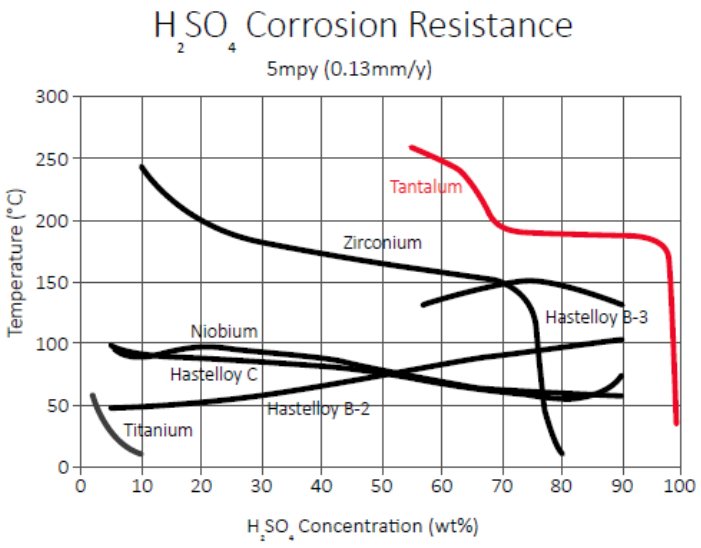
BHS SONTHOFEN

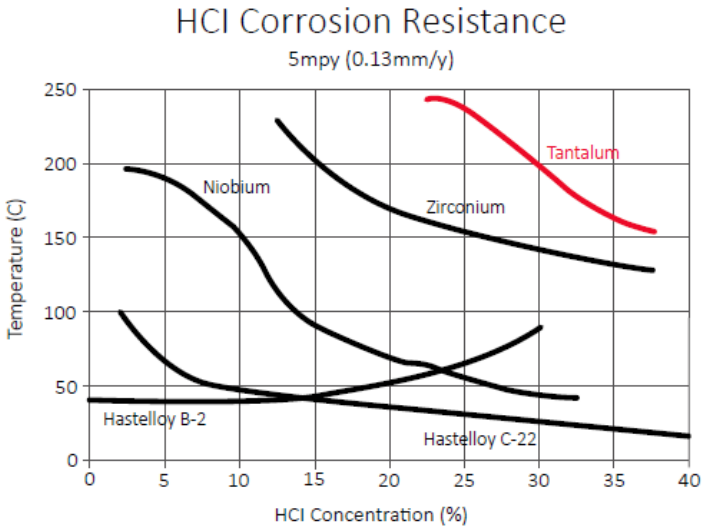
Media where Tantaline® shows immunity — the immunity is valid up to at least 150°C (302°F), unless otherwise noted:

Acetic acid, CH_3COOH
Acetic anhydride, $(CH_3CO)2-O$
Acetone, CH_3COCH_3
Air, <300°C (570°F)
Alcohols, R-OH
Aldehydes, R-CHO
Aluminum chloride, $AlCl_3$
Aluminum nitrate, $Al(NO_3)_3$
Aluminum sulfate, $Al_4(SO_4)_3$
Amines, $R-NH_3$
Ammonium bicarbonate, NH_4CO_3
Ammonium carbonate $(NH_4)_2CO_3$
Ammonium chloride, NH_4Cl
Ammonium nitrate, NH_4NO_3
Ammonium acid fosfate, $NH_4H_2PO_4$
Ammonium fosfate, $(NH_4)_3PO_4$
Ammonium sulfate, $(NH_4)_2SO_4$
Amyl acetate, $C_7H_{14}O_2$
Amyl chloride, $C_5H_{11}Cl$
Aniline hydrochloride $C_6H_5NH_2.HCl$
Aqua regia, $HCl-HNO_3$ mixture
Barium carbonate, $BaCO_3$
Barium chloride, $BaCl_2$
Barium hydroxide, $Ba(OH)_2$
Barium nitrate, $Ba(NO_3)_2$
Benzoic acid, C_6H_5COOH
Body fluids
Boric acid, H_3BO_4
Bromine, dry, <300°C (570°F), Br_2
Bromine, wet, Br_2
Butyric acid, C_3H_7COOH
Calcium bicarbonate, $Ca(HCO_3)_2$
Calcium bisulfates, $Ca(HSO_4)_2$
Calcium bisulfites, $Ca(HSO_3)_2$
Calcium carbonate, $CaCO_3$
Calcium chloride, $CaCl_2$
Calcium hydroxide, $Ca(OH)_2$
Calcium hypochlorite, CaOCl
Carboxylic acids, R-COOH
Carbon dioxide, CO_2
Chloric acid, $HClO_3$
Chlorinated brine
Chlorine, dry, <250°C (480°F) Cl_2
Chlorine, wet, <350°C (662°F), Cl_2
Chlorine oxides
Chloroacetic acid, $CH_2ClCOOH$
Chromic acid, $H_2Cr_2O_7$
Chrome plating solutions
Citric acid, $C_6H_8O_7$
Cleaning solutions
Copper salts,
Dichloroacetic acid, $CHCl_2COOH$
Dimethyl formamide, $(CH_3)_2CNH_2$
Ethylene dibromide, $C_2H_2Br_2$
Ethyl sulfate, $C_2H_6O_4S$
Fatty acids, R-COOH
Ferric chloride, $FeCl_3$
Ferric sulfate, $Fe_2(SO_4)_3$
Ferrous sulfate, $FeSO_4$
Food stuffs
Formaldehyde, HCHO
Formic acid, HCOOH
Fruits
Glycerine, $CH_2OHCHOHCH_2OH$
Graphite, <1000°C, C
Hydroiodic acid, HI
Hydrobromic acid, HBr
Hydrocarbons, HxCy
Hydrochloric acid, HCl
Hydrogen bromide, <400°C, HBr
Hydrogen chloride, <350°C, HCl
Hydrogen iodide, HI
Hydrogen peroxide, H_2O_2
Hydrogen sulfide, H_2S
Hydroxyacetic acid, CH_2 OHCOOH
Hypochlorus acid, HClO
Iodine, <300°C (570°F), I_2
Ketones, R-CO-R
Lactic acid, $CH_3CH(OH)CO_2H$
Lead salts
Magnesium chloride, $MgCl_2$
Magnesium hydroxide, $Mg(OH)_2$
Magnesium sulfate, $MgSO_4$
Maleic acid, $C_4H_4O_4$
Manganous chloride, $MnCl_2$
Methyl alcohol, CH_3OH
Methylsulfuric acid, $(CH_3)HSO_4$
Milk
Mineral oils
Mixed acids (sulfuric-nitric), H_2SO_4-HNO_3
Motor fuels
Nickel salts
Nitric acid, HNO_3
Nitric acid, fuming, HNO_3
Nitric oxide, NO2
Nitrogen, <300°C (570°F), N_2
Nitrous acid, HNO_2
Nitrosyl chloride, NOCl
Organic chlorides, R-Cl
Organic acids, R-COOH
Organic esters, R-COO-R'
Organic salts
Oxalic acid, $(COOH)_2$
Oxygen, <300°C (570°F), O_2
Perchloric acid, $HClO_4$
Petroleum products
Phenol/Carbolic acid, C_6H_5OH
Phosphoric acid, <4ppmF,<180°C, H_3PO_4
Phosphorus, <700°C (1290°F), P
Phosphorus chlorides, PCl_3
Phosphorus oxychloride, $POCl_3$
Phthalic anhydride, $C_6H_4C_2O_3$
Pickling acids, except HNO_3-HF
Potassium bromide, KBr
Potassium chloride, KCl
Potassium dichromate, $K_2Cr_2O_7$
Potassium ferricyanide, $K_3Fe(CN)_6$
Potassium iodide, KI
Potassium nitrate, KNO_3
Potassium permanganate, $KMnO_4$
Potassium sulfate, K_2SO_4
Potassium thiosulfate, $K_2S_2O_3$
Propionic acid, C_2H_5COOH
Refrigerants
Sea water
Silver nitrate, $AgNO_3$
Sodium acetate, $NaCH_3COO$
Sodium aluminate, $NaAlO_4$
Sodium bisulfate, solution, $NaHSO_4$
Sodium bromide, NaBr
Sodium chlorate, $NaClO_3$
Sodium chloride, NaCl
Sodium citrate, $Na_3CH(COO)_3$
Sodium cyanide, NaCN
Sodium dichromate, $Na_2Cr_2O_7$
Sodium hypochlorite, NaClO
Sodium nitrate, $NaNO_3$
Sodium nitrite, $NaNO_2$
Sodium fosfate, Na_3PO_4
Sodium silicate, Na_4SiO_4
Sodium sulfate, Na_2SO_4
Sodium sulfide, Na_2S
Sodium sulfite, $NaSO_3$
Sodium thiosulfate, $Na_2S_2O_3$
Stearic acid, $c_{17}H_{35}CO_2H$
Succinic acid, $C_4H_6O_4$
Sugar
Sulfamic acid, H_3NSO_3
Sulfur, <500°C (930°F), S
Sulfur chlorides, $SxCl_2$
Sulfur dioxide, SO_2
Sulfuric acid, to 175°C (350°F), H_2SO_4
Sulfurous acid, H_2SO_3
Sulfuryl chloride, SO_2Cl_2
Tannic acid $C_{76}H_52O_{46}$
Tartaric acid, $C_4H_6O_6$
Thoinyl chloride, $SOCl_2$
Tin salts
Zinc chloride, $ZnCl_2$
Zinc sulfate, $ZnSO_4$

Corrosion Charts

These charts show the conditions under which various metals will corrode at a fixed rate of 5 mils per year (mpy). Tantalum by far outperforms other specialty metals and alloys.





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