

NEVER

DEAL WITH SPENT ACID AGAIN

PRO-pHx Treated And Maintained Acids
Continue To Perform Effectively & Consistently

PRO-pHx Acid Life Extender

Reduces Acid Requirements By 80 - 90 %

- Extends Acid Life
- Reduces New Makeup Acid Costs
- Eliminates Organic Build Up
- Eliminates Oily Film Build Up
- Eliminates Costly Disposal Methods
- Reduces Tank Heating Energy Costs
- Cost Effective In-House Treatment
- Requires No Production Down Time
- Odorless -No Unpleasant Treatment Odor
- Eliminates Issues Associated With Disposal
- Captures Operating Costs As PROFIT
- Reduces air emissions

REVITALIZE SPENT ACIDS

THE *PRO-pHx* WAY

THE BEST ALTERNATIVE TECHNOLOGY

*For The Continuous Use
And Recycling Of Acids & Rinses*

PRO-pHx

ACID LIFE EXTENDER

*Is An Environmentally Sustainable Product From
Wagner Environmental Technologies, LLC
PRO-pHx Is Available Through Authorized Distributors*

JPS Technologies Inc

Is An Authorized Distributor For *PRO-pHx*
11110 Deerfield Road Cincinnati, OH 45242
513-984-6400 Email: Jack@jps technologies.com

www.PRO-pHx.com

CALCULATE YOUR SAVINGS

Recovery Data Information

Information Needed to Calculate Investment Pay-Back

Name	
Company	
Phone	Email
Acid Type	
Annual Virgin Acid Cost	
Annual Volume Virgin Acid Purchased	
Total Volume Of Pickle Tanks	
Annual Volume Of Acid Hauled _____	
- What % is Iron _____	
- What % is Zinc _____	
- What % is Acid _____	
Annual Cost For Acid Disposal	
Additional Information:	

Send Cost & Pay Back Analysis to
Jack@jps technologies.com
Or go to 'Savings Calculator' online www.PRO-pHx.com

PRO-pHx

ACID LIFE EXTENDER

A P2 SOLUTION

Pollution Prevention

Extends Acid Life Indefinitely

NEVER DEAL WITH SPENT ACID AGAIN

COST EFFECTIVE SOLUTION FOR ISSUES
Associated With Acids Use In Manufacturing

INORGANIC • NON-FLAMMABLE
NON-TOXIC • ODORLESS TREATMENT
NON-ACID • NON-HAZARDOUS
Meets OSHA-20 Non-Hazardous Specifications

*Environmentally Friendly
Environmentally Sustainable*

*PRO-pHx & Effective Filtration
Allows Working Acids To Last
INDEFINITELY*

••• www.PRO-pHx.com •••

PRO-pHx ELIMINATES ACID DISPOSAL

- Effective in Controlling the Build Up Of Organics, Iron, Zinc, Nickel, Copper, & Other Metals
- Applicable in Sulfuric, Hydrochloric (Muriatic), Nitric, Citric, Phosphoric & Exotic Acid Blends.

Using PRO-pHx In Acids

- 1) Eliminates Acid Dumps
- 2) Reduces Acid Make Up Requirements
- 3) Reduces Filter Cake in Waste Treatment
- 4) Provides Consistent Production Quality

P 2 Solution Eliminates Acid Disposal Stabilize Quality & Save Money Cost Effective - Environmental

Find Articles On-Line @ www.PRO-pHx.com

- **Wire Journal International Magazine**
"Acid Purification: Technical & Economic Benefits for the Wire Industry"
- **TV's History Channel - Modern Marvels**
"The History of Acids!" Featured **PRO-pHx**
- **Metal Finishing Magazine**
"Acid Cleaners and Acid Etchant Life Extension"
- **Clean Tech Magazine**
"PRO-pHx Acid Life Extender!"
- **Plating & Surface Finishing Magazine**
"Environmental Acid Extender Really Works!"
- **Products Finishing Magazine**
"Long Live Acid Baths!"
- **AR Dept. of Environmental Quality (ADEQ)**
"PRO-pHx Falls Squarely Into The Upper Tiers Of The P 2 Pyramid."
- **South Carolina DHEC - April Newsletter**
"CASE STUDY - Saves Money & The Environment"

PRO-pHx Customers Are Satisfied Customers

ELIMINATE ACID DISPOSAL

Your Company Can Eliminate Acid Disposal

Become Zero Acid Generator

*Eighteen (19) Years History With Electroplaters
Sixteen (17) Years Of History With Galvanizers*

PRO-pHx is based on catalytic reagent chemistry developed by Dr. John C. Wagner first used commercially in 1999 by Amplate Inc. Initial acid baths were disposed of every 10 days. After the PRO-pHx application, the baths were not disposed of again but were used continuously thereafter.

Economy - Investment Pay-Back

For every dollar spent on PRO-pHx and filtration, the customer will save between \$ 6.50 and \$12 + dollars. This will vary for different applications and different operating lines depending on production & raw materials costs, the hauling and disposal costs for spent acid. Calculate an accurate pay-back, ROI, for each application. Go to 'Savings Calculator' online at www.PRO-pHx.com

The Projected Savings Include:

- Reduction of acid purchases
 - Reduction in effluent neutralization
 - Reduction in disposal costs – liquid and sludge
 - Possible sale of zinc sludge
 - Reduction of production down time
- New Costs Include:**
- Initial and maintenance additions of the proprietary chemical, PRO-pHx.
 - Cost and maintenance of the filtering system

Calculate The Numbers & Identify Your Savings.
Go to 'Savings Calculator' Online www.PRO-pHx.com

APPLICATION & MAINTENANCE IS SIMPLE

Follow These Simple Steps & PRO-pHx.
Maintained Acids Continue to Perform Indefinitely

- 1) The PRO-pHx application is maintained at 1% ratio to the total acid & water volume of the bath.
- 2) Effective filtration is required.
- 3) Titrate acid and spike to strength at least weekly.
- 4) Ongoing acid spikes (fresh acid), filtration and maintaining PRO-pHx at 1% is required

Maintained Acids Will Remain Strong & Clean
I N D E F I N I T E L Y

ECONOMY & ECOLOGY

Lean & Green Manufacturing Chemistry ELIMINATES ACID DUMPS

4 Month Study comparing 8,000 G sulfuric acid tanks & filtration with and without PRO-pHx.

WITHOUT PRO-pHx	WITH PRO-pHx
16, 000 G Acid Disposal	0 G Acid Disposed

Actual Savings realized from using PRO-pHx on one line
After Four (4) months of operation is \$ 12, 207.

New York Empire State Development Group R&D Project With Independent Laboratory Analysis. Found large reduction in acids and caustic purchases & disposal cost was experienced through the use of the PRO-pHx technology. Overall savings in acids & caustic was greater than 58% first year & a 65 % savings subsequent years when using PRO-pHx.

AR Dept. of Environmental Quality (ADEQ) "PRO-pHx Falls Squarely Into The Upper Tiers Of The P2 Pyramid"

"Purchase of the necessary equipment to operate this technology would fall under one of Arkansas laws that allows tax exemptions for 'pollution abatement' equipment," & "also qualify for small business low interest loans from ADEQ for the same."

Supplemental Environmental Project (SEP)

January 2006: Manufacturing plant (under non-disclosure agreement) received a fine for RCRA Administrative Violations. The company with the regulatory agency agreed to a SEP (Supplemental Environmental Project) rather than issuing & paying the fine. SEP covered the cost for a filtration system when used with PRO-pHx

Ohio Regulatory Determinations RE: PRO-pHx
Filter cartridges used in acids treated with PRO-pHx
" - - - Neutralization of the acidity will allow for non-hazardous disposal. Low interest loans may be available for PRO-pHx process projects as a P2 Technology.

www.PRO-pHx.com