

VE XO™ X-PO® 400 Multi-System Desludger

- **X-PO® 400** scientifically designed proprietary product formulated as a non-regulated cleaning agent to remove Iron Oxide (Rust) corrosion by-products.
- **X-PO® 400** is safer and easier to use compared to aggressive mineral acid based de-scaling compounds which will quickly attack ferrous and non-ferrous metals.
- **X-PO® 400** will actually provide corrosion protection to ferrous and non-ferrous metals during the cleaning process! During the cleaning process **X-PO® 400** will provide a protective barrier to retard corrosion potentials for both ferrous & non-ferrous metals.
- **X-PO® 400** besides working on Iron Oxide deposits will also have effectiveness on Calcium Carbonate, Sulfates, Phosphates and Organic deposits.
- **X-PO® 400** can be used in the toughest of conditions and in mixed metallurgy systems. **X-PO® 400** can be useful cleaning hot water or steam boilers as well as closed chilled loop systems. Any application where iron oxide corrosion by-products have accumulated. **X-PO® 400** works by penetrating, dispersing and complexing iron oxide corrosion by-products. The longer **X-PO® 400** is present in a system - the better it works!

Application Rate and Control Parameters

- **X-PO® 400** application rates will vary widely based on the deposit composition and volume. Generally, for lighter iron oxide deposits, apply **X-PO® 400** at a 1% volume/volume basis and re-circulate the system for 48 hours.
- For medium to heavy deposits, apply **X-PO® 400** at 5% to 50% volume/volume basis and circulate the system for 48 hours. Follow the cleansing action by checking pH & iron transport of the recirculating water.
- If the pH increases above 7.5, more **X-PO® 400** should be added to the system. Optimum, re-circulation pH value with **X-PO® 400** is <7. However, the re-circulation time should be kept at a minimum of a 48 hour time frame which will allow the optimum removal of all deposits as well as providing a passive corrosion inhibitory film to the metals. For heavy deposits more retention time will be required to penetrate and disperse the iron oxide masses.
- **X-PO® 400** cleaning action is enhanced by mildly elevating temperature. Mildly elevated temperature increases speed of the cleansing action of **X-PO® 400**. It is recommended to have the re-circulating water within a temperature range of 50 to 90 Centigrade. If higher temperatures are not available during the cleaning process extend the retention time of **X-PO® 400** for another 24 hours.
- Filtration during the **X-PO® 400** application is highly recommended! Filtration removes the gross iron oxides that **X-PO® 400** has loosened and transported!
- Note, although **X-PO® 400** is not aggressive to ferrous and non-ferrous metals please keep in mind that using **X-PO® 400** in removing the accumulated iron oxide corrosion by-products will very likely uncover the under deposit corrosion cells that were created prior to **X-PO® 400** application. It would not be unusual for fouled piping systems to have pin-hole leaks caused by corrosion actions uncovered by the cleansing action of **X-PO® 400**.
- After the **X-PO® 400** cleaning process is completed, the system should be purged to remove all of the iron oxides, thoroughly flushed repeatedly and then refilled and treated with the correspondingly proper corrosion and deposit control agents appropriate for that specific system.

General Control Test Methods

- Reduction of iron oxide deposits in system
- Visual inspection
- Iron Transport during cleaning process

Refer to the SDS for further health, safety and environmental information regarding this product. Information and recommendations in this bulletin are based on information believed to be reliable. However, the use of the product is beyond our control, and no guarantee, expressed or implied, is made as to the effects of such the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from misuse of the product as such, or in combination with other materials.

GHS
CODE



HMIS
CODE



Physical Properties

Form:	Liquid
Odor:	Characteristic
Pounds/Gallon:	9.5# +/-
Freeze Point:	32F +/-
Color:	Amber
pH:	<5
Specific Gravity:	1.14 +/-
Freeze/Thaw:	Recovery