

VE XO™ X-PO® 450


New System Cleaner


- **X-PO® 450** a blend of organic surface reduction and dispersal agents for pre-operational cleaning applications of industrial water systems.
- **X-PO® 450** designed to clean fouled surfaces of heat transfer equipment, to cleanse the system of dirt, debris, oil, mill scales and general grime. **X-PO® 450** is especially effective in both cleaning and scrubbing the dirt like deposits and at the same time providing a passivated corrosion inhibitory film on the cleansed metal surface.
- **X-PO® 450** can be used for boiler, closed loop or cooling systems. **X-PO® 450** should be applied as an off-line pre-operational cleaner and is not intended as an on-line treatment.
- **X-PO® 450** functions by penetrating the matrix of organic deposits, chelation of metallic ion deposits, dispersal of particulate matter and reducing the surface tension of the dirt/oil film as well as surface scrubbing agent action which clean away the dirt. **X-PO® 450** cleansing action allows the surface areas to be free of dirt, oil and mill scales, which then allows the temporary corrosion inhibitory films of **X-PO® 450** to adhere until a longer term treatment regimen is applied.
- **X-PO® 450** contains ferrous & non-ferrous inhibitors including an organic based Filming Amine Corrosion Technology component assisting formation of a tenacious inhibitory film to control corrosion mechanisms during the off-line cleaning process.

Application Rate and Control Parameters

- **X-PO® 450**, the amount used and retention time in system will depend upon the severity of the dirt, grime, oil and mill scale left in the equipment. A general starting point for **X-PO® 450** would be a rate of 120-360 ppm. For systems where a greater cleansing action is required **X-PO® 450** should be fed at a rate of 1200-10,000 ppm. Generally a 4-12 hour recirculation time should be considered, for heavily fouled systems retention times can be extended up to 48 hours.
- **X-PO® 450** should be pre-mixed in a volume of water and then applied to the system. For boiler or hot water closed loops increasing the temperature of the re-circulating water will assist **X-PO® 450** in its cleansing action.
- **X-PO® 450** utilized for cooling or chill loops should be applied at ambient temperature. Re-circulate the system for a longer period of time. Generally a 4-12 hour recirculation rate is needed for a generally effective cleaning process. **X-PO® 450** applied to heavily fouled systems may tend to slough large amounts of deposited material; therefore, adequate precautions should be taken to prevent plugging of screens, small lines and heat exchangers.
- After the **X-PO® 450** cleaning/passivating process is completed, the system should be purged to remove all of the mill scale/oils/greases/iron oxides and other contaminants, thoroughly flushed repeatedly and then refilled and treated with the correspondingly proper corrosion and deposit control agents appropriate for that specific system.

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:	9.0# +/-
Freeze Point:	32F +/-
Color:	Amber
pH:	12 +/-
Specific Gravity:	1.09 +/-
Freeze/Thaw:	Recovery