

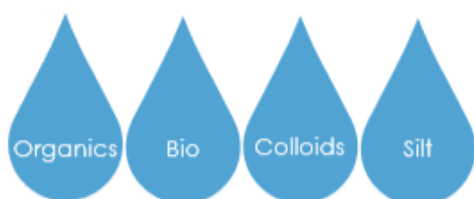
### Supraclean 4413 – Powdered, Alkaline Cleaner for Membranes

#### Product Description

Supraclean 4413 is an EDTA/phosphate-free high pH (alkaline) powdered cleaner developed to lower negative impacts on the environment while maintaining aggressive cleaning action. The formulation includes a bio-degradable chelant along with solubilizing agents, and membrane safe oxidizers.

- Ideal for removing organic, biological, silt, particulate, and other acid insoluble foulants from thinfilm composite, ultrafiltration, and microfiltration membranes. Ideal for municipal reuse, surface water, and other high loading applications
- Ideal for membrane systems troubled by high organic/biological loading.
- Compatible with RO, NF, MF and UF membranes from all major manufacturers.

#### Effectively Removes



#### Specifications

Appearance : Powder  
Product pH (neat) : 10.0 – 11.5



#### Usage And Application Instructions for Supraclean 4413

The standard dilution ratio is 25 grams of 4413 per liter of water.

1. Inspect all cleaning system components to include CIP tank, hoses, and cartridge filters. Flush or replace if necessary.
2. Fill cleaning tank with RO permeate or DI water. Turn on agitator or tank recirculation pump.
3. Slowly add Supraclean 4413 to cleaning tank 25 grams of 4413 for every 1 liter of water and mix thoroughly.
4. The solution should be heated up to max. 40°C to improve cleaning efficacy. Do not exceed the membrane manufacturer's temperature limits.
5. Circulate solution in the same direction as the feed flow. Typical circulation times are 30-90 minutes.
6. Maximum flow rate per pressure vessel is 152 Lpm for 8-inch elements and 38 Lpm for 4-inch elements. Maximum pressure for cleaning is 60 psig.
7. In cases of heavy fouling, the first return flow (up to 15% of the cleaning tank volume) should be diverted to drain to prevent redeposition of removed solids.
8. Rinse with RO permeate before returning system to service. When returning unit to service, divert product water to drain until any residual cleaning solution has been rinsed from system

#### Handling

Avoid spilling, skin and eye contact. Observe good chemical hygiene practices.

Please read the label and Material Safety Data Sheet before handling this product.



#### Logistics

Packaging  
10 kg (net weight) Plastic drums

