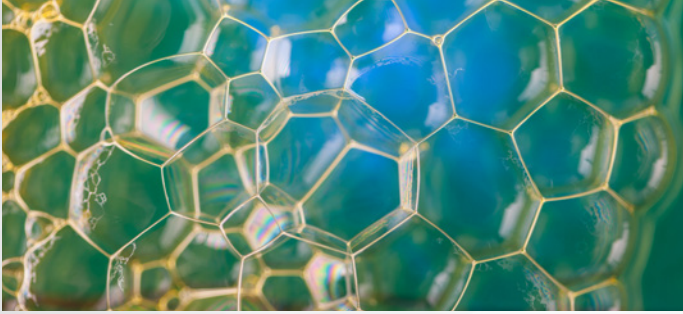


# SURFACTANTS



Surfactants reduce the surface tension of the liquid in which they are dissolved. Commonly used in cleaning products to emulsify oils and hold dirt or other particulates in suspension. Also used in chemical processing like ethanol production.

## SURFACTANT APPLICATIONS:

- Railcar unloading of feedstocks
- Transfer of process intermediaries
- Transfer of finished products

## VIKING IN THE PROCESS:

Viking pumps are used throughout the surfactant manufacturing process. They are used in moving the raw ingredients such as oils and fats from the railcars to the plant. Viking pumps are used in both the saponification and sulfonation processes to move liquids like fatty acids, sulfonic acid and glycerine. They are also used in the blending and final packaging of the finished product. Viking pumps are able to handle a wide range of viscosities, have no pulsation, and flow rate can be adjusted easily with a variable frequency drive.

## SUGGESTED PUMPS:

### 4127A SERIES™



- 316 Stainless Steel
- Cartridge lipseal sealing options
- Capacities to 320 GPM

### 1127A SERIES™



- 316 Stainless Steel
- O-Pro™ Guard seal
- Abrasive resistant sealing option
- Capacities to 335 GPM

### 4724 SERIES™



- 316 Stainless Steel
- High viscosity & abrasive resistant sealing options
- Capacities to 110 GPM