

## ENZYMES

# Zyme-O-Clean

### Description

**Zyme-O-Clean** is a food-grade enzyme complex produced by several strains of selected microorganisms. It is specially designed to clean non-cellulosic filters such as membranes made of polysulfone, ceramic, or other inorganic materials.

### Properties

Residual pectin fragments such as rhamnogalacturonan, arabinogalactans, and arabinans, as well as proteins, tannins, polyphenols, and glucans that are liberated during the wine production process will form a layer that clogs the filtration membranes and as a result will progressively decrease the flow rate and the filtration cycle. **Zyme-O-Clean** contains concentrated pectinase, cellulase, hemicellulase, arabanase, rhamnogalacturonase, beta-glucanase, xylanase, and acid protease enzymes in a ratio specifically designed for optimal filter cleaning.

**Zyme-O-Clean** has been specially developed for the cleaning of filtration systems (such as filter membranes) that are not cellulose-based, as the enzyme complex contains powerful cellulase enzymes that degrade cellulose.

### Dosage and Addition

**Zyme-O-Clean** is intended for use before chemical cleaning. Cleaning chemicals that are strongly alkaline or acidic will inactivate the enzyme complex.

**Recommended Application:** The 2–3 g/L (7.6–11.4 g/gallon) solution, pH adjusted to 3.5–4.5 with a natural organic acid, should be circulated through the filter for 45–60 minutes, or longer if required, at a temperature of 40°–55°C (104°–131°F).

A solution can be prepared with approximately 1 kg of **Zyme-O-Clean** per 300 L (80 gal) of potable, pH-adjusted water, then added to a cross-flow filter tank for recirculation.

Please contact your ATPGroup Enology Products Specialist for assistance with optimizing the enzyme use to meet your requirements.

### Storage and Shelf Life

Store in the original container in a refrigerated (4°–10°C/39°–50°F), dry place to maintain maximum activity for up to 24 months. The integrity of the product is guaranteed only if it is stored as indicated in this Technical Data Sheet.

### Packaging

**Zyme-O-Clean** is available in 1 kg bottles, 25kg drums, or 1000 kg totes.

Product for Professional Beverage and Enology Use Only  
Please refer to the SDS for safe handling requirements.