



Clear Solutions USA

CLEAR SOL MEM ZYME M

Technical Data Sheet

HIGH-PERFORMANCE, POLYMERIC-COMPATIBLE RO FILTER CLEANER CONCENTRATE

DESCRIPTION

Clearsol MEM ZYME M is a brand new, high performance RO Filter Cleaner Concentrate containing enzymes which exhibits exceptionally low surface tensions (<19 dynes/cm) and fully compatible with polymeric-based membranes. This formula contains no dodecylbenzene sulfonic acid (DDBSA) type surfactants which are known to attack and degrade enzymes over time or nonionic type surfactants which can “foul” RO membranes due to their hydrophobic nature. In addition this product does not contain any amine-based pH stabilizers such as TEA which can exhibit nucleophilic attack on enzymes reducing their concentration in cleaners.

- **Extremely Low Surface Tensions.** Solutions of MEMZYME M exhibit surface tensions less than 19 dynes/cm.
- **Contains NO DDBSA.** Clearsol MEM ZYME M contains no dodecylbenzene sulfonic acid (DDBSA) type surfactants which can attack and reduce enzyme levels in cleaners.
- **Contains NO Nonionics.** Clearsol MEM ZYME M also contains no nonionic type surfactants which can “foul” RO membranes due to their oily, hydrophobic nature which allows them to “oil out” of solution and adhere to membrane surfaces which can clog pores.

CLEAR SOLUTIONS USA
47 North Ski Court, Gilbert, AZ 85233
Phone: 480-631-0996

- **Contains NO Amine pH Stabilizers.** Clearsol MEM ZYME M also contains no amine pH stabilizers such as TEA which can exhibit nucleophilic attack on enzymes reducing their concentration and effectiveness in cleaners.
- **Excellent Polymeric Membrane Compatibility.** Clearsol MEM ZYME M exhibits excellent compatibility with polymeric-based RO membranes due to its unique formulation which contains no DDBSA, no amines and no nonionic surfactants.
- **Excellent Polymeric Membrane Cleaning.** Clearsol MEM ZYME M is also a highly effective, neutral cleaning concentrated formula containing superior wetting and dispersing agents and an optimized level of enzyme.

APPLICATION TIPS

For best results Clearsol MEM ZYME M should be added to an RO Membrane Cleaning Solution at about 1 – 2 quarts cleaner to approximately 100 gallons of water.

SPECIFICATIONS

Appearance	Clear, light amber liquid
Odor	Bland odor
Specific Gravity	1.117
pH (as is)	7.5 – 8.0

STANDARD PACKAGING

Clearsol MEM ZYME is available in 55-gallon drums and bulk packaging.

SHELF LIFE

Clearsol MEM ZYME has a shelf life of 2 years.

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