

X-CIDE XC80102 microbiocide

Control bacterial growth in freshwater, high-salinity produced waters, and seawater

Applications

- Oil and gas pipelines
- Water injection systems
- Mixed production systems

Features and Benefits

- Broad spectrum biocide kills bacteria including aerobic and anaerobic microorganisms, sulfate-reducing bacteria, yeast, and mold
- Functional over a broad pH and temperature range
 - Can be used in fresh water, seawater, or producing systems
- Extremely fast acting
- Nonsurface active and nonfoaming, reducing process upsets
- Compatible with anionic, nonionic, and cationic dispersants
- Odorless and noncorrosive to metals at recommended use levels, reducing risk to equipment
- No halogenated materials
 - Does not require specialized handling equipment
- Contain no heavy metals

The fast acting X-CIDE™ XC80102 microbiocide controls bacterial growth in seawater and high salinity produced waters as well as high or low pH waters. It's bacterial activity is not retarded by high concentrations of electrolytes, and it is equally as effective in fresh water systems as it is in highly saline produced waters.

It is a highly water-soluble, liquid glutaraldehyde bactericide that is effective against a wide variety of anaerobic bacteria like desulfovibrio desulfuricans and aerobic bacteria such as pseudomonas bacillus, klebsiella, and rhodotorula. It is also compatible with anionic, nonionic, and cationic dispersants.

This product may be applied continuously at levels of around 30 ppm to treat water used for water injection and produced oil and water systems. The normal method of application is batch addition at levels between 200 to 800 ppm over a 2- to 6-hour period.

X-CIDE XC80102 microbiocide is easy to handle relative to other microbiocides. It can be easily diluted or deactivated to nonbiocidal levels and contains no halogenated materials or heavy metals. This microbiocide is a readily biodegradable compound that has little environmental impact when handled properly. It has a favorable ecotoxicology profile because of its rapid aerobic and anaerobic decomposition.

The X-CIDE XC80102 microbiocide is a member of the Baker Hughes SmartCare™ family of environmentally conscious chemical solutions, which helps ensure that clients' technical performance and environmental priorities are achieved.

Evaluated by the Baker Hughes Environmental Services Group's chemical assessment review process, this product has been methodically vetted for health, safety, and environmental (HSE) criteria, performance, consistency, compatibility, and value.

Typical properties

Specific gravity at 16°C (61°F)	1.058 to 1.072
Typical density at 16°C (61°F)	1050 kg/m ³ (8.76 lbm/US gal)
Flash point, closed cup	>93.4°C (>200.1°F) [SFCC]
Solubility	Water soluble
Viscosity at 16°C (61°F)	4 cP
pH	3.1 to 5.0
Pour point	-6.7°C (19.9°F)

Materials compatibility

Suitable

Metals: 304 stainless steel, 316 stainless steel, aluminum, Super Duplex 2507 (S32750), Tin Bronze (CC483K), Ni Al Bronze (CC333G), Nitronic 60 (S21800), SS301 1.4310 (S30100), SS X-750 (N07750), Nickel Alloy 718

Plastics: HD polyethylene, HD polypropylene, Nylon 11, KALREZ®, HYTREL® 6356, GRAFOIL™, PEEK™, Pom C, FFKM, PTFE

Elastomers: Polytetrafluoroethylene, TEFLON®, HNBr

Not suitable

Metals: C1018 mild steel

Elastomers: Buna N (rubber), VITON®, Chemraz® 510

Materials suitability is based on analysis of test results obtained under specified laboratory conditions. All materials selection should be based on actual application. Testing results for materials will be made available on request.

Safety and handling

Before handling, storage, or use, re-view the Safety Data Sheet (SDS) for guidance.