RMQ-Titan pilot devices: Chemical resistance

Over 100 years of experience

The products in the RMQ-Titan range are made of a variety of different materials and components. With over 100 years of experience in developing and producing pilot devices of the Eaton Moeller series, we know exactly which materials to use, and how and where they should be used.

Before new products are brought to market, they are thoroughly tested to ensure they meet the high quality standards of our company and our customers. The tests are carried out by the Institute for International Product Safety (I²PS), which is an independent testing laboratory.

Resistance

The resistance of materials to different materials and chemicals is highly dependent on various factors, such as

- Duration and frequency of exposure
- Concentration of the medium
- Temperature

The listed data is based on laboratory tests and past experience, serving as a guideline for the materials used in our pilot devices. If the products are to be used in a particular environment, they may need to be tested under real-life conditions in specific cases.

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All data is based on tests conducted at room temperature and, unless stated otherwise, using the standard concentration of media.

Resistant	Partially resistant	Non-resistant
• Acidic disinfectant	• Alkaline cleaning agent (containing chlorine)	• Regular gasoline
• Alkaline cleaning agent (chlorine-free)	• Mineral oil	• Concentrated mineral acids
• Acidic foam cleaning agent	• Diesel fuel	• Concentrated alkaline solutions
• Neutral disinfectant	• Fuel oil	
• Diluted mineral acids	• Kerosene / Paraffin	
• Diluted alkaline solutions	• White spirit	
• Tap water	• Lactic acid	
• Car cleaning solution	• Alcohols	
• Water-based cooling lubricants		
• Animal oils		
• Oleic acid		
• Octanoic acid		

The following tests were performed using commercially available disinfectants and cleaning agents:

Media	Application	Concentration	pH value	Ingredients	Resistance
P3-topactive DES	Acidic disinfectant	3%	3	Hydrogen peroxide 8–35% Acetic acid <10% Alkyl amine oxides 1–5% Peracetic acid 1–5%	++
P3-topactive 200	Alkaline cleaning agent (chlorine-free)	4%	13	Ethanol 5–10% Sodium hydroxide 5–10% Potassium hydroxide 7–25% Anionic surfactants 1–5% Alkyl polyglycosides 1–5% Alkyl amine oxides <1%	++
P3-topax 65	Alkaline cleaning agent (containing chlorine)	5%	13.5	Potassium hydroxide 5–7% Sodium hypochlorite 2.5–5% Alkyl amine oxides 1–5%	+
BCS aluminum cleaner	Acidic foam cleaning agent	2%	1.5	Phosphoric acid 25–50% Nitric acid 10–25% Polyethylene glycol monododecyl ether <2.5% Amines, C10-16-alkyldimethyl, N-oxides <2.5%	++
Fink Antisept G	Neutral disinfectant	5%	8.	Alkyldimethylbenzylammonium chloride 5–10% Didecyldimethylammonium chloride 2.5–5%	++

Resistance: ++ = resistant; + = partially resistant; - = non-resistant

Testing conditions:

Temperature = room temperature

Type of exposure = dipped

Duration of exposure = 28 days

Concentration = (manufacturer's recommended concentration)

If you have any further questions, please contact your distributor or visit Eaton.com/contacts

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