PRODUCT INFORMATION

ROWE®

MIRATEC HSA ECO 3

Glycol-free, highly concentrated additive package for water-carrying systems without antifreeze requirements.
MIRATEC HSA ECO 3 is a highly concentrated, hybrid-organic additive package for closed, low-salt, and low-oxygen water-carrying systems. It was developed for heating systems, building service circuits, heat exchanger circuits, and similar secondary circuits operated without antifreeze.
At the recommended application concentration, MIRATEC HSA ECO 3 supports corrosion protection for typical metallic materials and helps reduce scale, lime buildup, and corrosion-related deposits. The additive technology used is based on experience gained from demanding water-based cooling systems and has been adapted for use in closed heating and technical water circuits.
MIRATEC HSA ECO 3 does not provide freeze protection. If freeze protection is required in a system, suitable glycol-based heat transfer fluids must be evaluated separately.

Description

MIRATEC HSA ECO 3 helps protect typical metallic materials in suitable closed systems, particularly aluminum, iron, cast iron, steel, copper, and brass. At the same time, the additive helps stabilize water chemistry and reduce the formation of scale, lime, and corrosion-related deposits.
The product is free of nitrites, borates, and phosphates. Its compatibility with typical plastics has been tested. MIRATEC HSA ECO 3 is non-foaming and designed for use in suitable closed, water-carrying systems.
Its corrosion protection performance was tested and passed in corrosion tests according to ASTM D1384. The 3% mixture was tested in deionized water, hard water up to 25 °dH, and water containing corrosive substances. The results demonstrate reliable protection against typical metallic materials, even under severe test conditions. Fresh, fully demineralized water must be used for the practical preparation of the ready-to-use mixture.

Application

MIRATEC HSA ECO 3 is not intended for direct application; instead, it must be mixed with fresh, fully desalinated water before use.
The recommended concentration is approximately 3 l of MIRATEC HSA ECO 3 per 100 l of system volume. Ensure thorough mixing after dosing.
The concentration can be monitored via conductivity. At a 3% concentration, the guideline value is approximately 1,500 µS/cm. Further information on system preparation, water quality, dosing, filling, monitoring, operation, and documentation can be found in the separate application guidelines.

Advantages

- Helps protect typical metallic materials from corrosion
- Helps reduce deposits, scale formation, and corrosion-related residues
- Suitable for typical materials used in building services engineering, including aluminum, iron, cast iron, steel, copper, and brass
- Corrosion protection performance tested and certified according to ASTM D1384
- Tested with a 3% mixture in deionized water, hard water up to 25 °dH, and water subject to corrosive conditions
- Test, measurement, and photographic documentation available
- Practical dosing: approx. 3 l additive package per 100 l system fill
- Application concentration can be monitored via conductivity
- Free of nitrites, borates, and phosphates
- Tested compatibility with typical plastics
- Non-foaming
- Intended for the practical preparation of the ready-to-use mixture with fresh, fully desalinated water
- Glycol-free and without antifreeze properties
- Developed, manufactured, and bottled in Germany

ROWE MINERALÖLWERK GMBH
Langgewann 101, D-67547 Worms

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Typical characteristics

Property	Method	Unit	Value
Color		visual	gelblich / yellowish
Density at 20 °C	ASTM D1122	g/ml	1.075
pH	ASTM D1287	-	8,1 - 8,7
Refractive index	-	-	1,3835 - 1,3847

These characteristics are typical for current production. The data does not constitute an assurance of properties or a guarantee of suitability for a specific application. Existing legal provisions and regulations that affect handling and usage of the products must be observed by the recipient of our products. ROWE products are continuously being developed. For this reason, ROWE retains the right to change all technical data in this product information at any time without prior announcement. Our current General Delivery and Payment Conditions apply (www.rowe-oil.com).

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