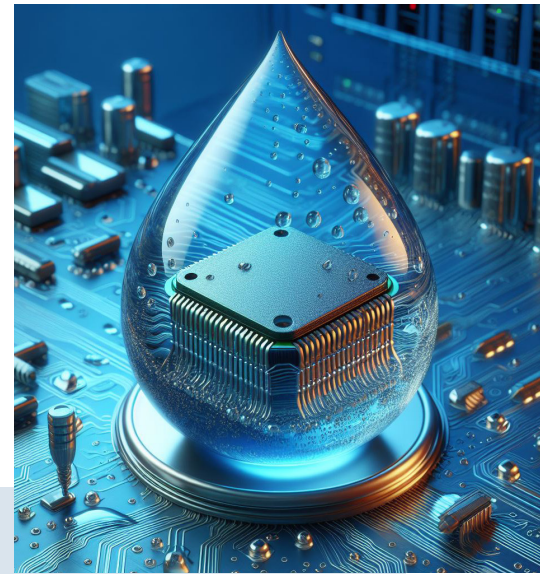


Zitrec® EC 20

Propylene glycol based heat transfer fluid

Zitrec® EC 20 is a heat transfer fluid based on high quality grade monopropylene glycol (PG) and a patented organic additive package technology that provides corrosion protection to a wide array of materials making this product a universal solution.

Zitrec® EC 20 is specially designed for the cooling of electronic components where a low toxicity product is required with a universal material compatibility.



PRODUCT BENEFITS



Efficient heat transfer

- Available in various PG concentrations, combining the benefits of PG with the excellent heat transfer properties of water;
- Biostatic.



Extra reliability through Organic Additive Technology

- Patented additive package;
- Corrosion inhibitors protecting all kinds of metals;
- Depletion free and stable.



Material compatibility

- High-temperature corrosion protection for aluminium, copper, (stainless) steel, brass, ... ,
- Comptabile with most common tubes, hoses and seals.



Environment and safety

- Propylene glycol derived from recycling and purification of de-icing fluid;
- Non-classified formulation according to EU and US regulation;
- Expected to be readily biodegradable;
- Free from nitrites, borates and 2-EHA.

Application

Arteco's **Zitrec® EC 20** is designed as a liquid heat transfer medium for a wide range of applications and particularly recommended for electronic components such as **liquid cooled Direct-to-Chip applications, Datacom Equipment Center Cooling** and **Glycol loop heat transfer exchangers**.



Power Electronics



Edge Computing



Servers



High Performance Computing

Zitrec® EC 20 is available in various PG/water concentrations depending on the system requirements.

Toxicity & safety

For toxicity information, safe handling and disposal of the product, we refer to the Safety Data Sheet. This product should not be used to protect the inside of drinking water systems against freezing.

Packaging

Arteco's **Zitrec® EC 20** is available in following packages & colours:



IBC 1000L



Colour options upon request

Contact details

Should you have questions with regards to Arteco's **Zitrec® EC 20**, related to available packages, dilutions or colours or on one of the other Arteco solutions, please do not hesitate to contact your local Area Sales Manager or send your inquiry to info@artecco-coolants.com.

Addendum - Technical information

Chemical and Physical Properties

Property	Zitrec® EC 20 25% PG	Unit	Method	OCP Guidelines
Appearance	clear liquid			
Propylene glycol	25	vol.%		24.5 - 29.5
Freezing point	-11	°C	ASTM D1177	-13 to -9
pH (20°C)	8.7		ASTM D1287	8.0 - 10.5
Reserve Alkalinity	2.9*	ml	ASTM D1121	>4
Refractive Index (20°C)	1.3660		ASTM D1218	
Density (15°C)	1.030	kg/l	ASTM D5931	
Density (20°C)	1.028	kg/l	ASTM D5931	
Nitrite, borate, 2EHA	-			
Microbiological control - bacteria	0	cfu/ml		<1

* Reserve Alkalinity (RA) indicates the amount of alkaline components present in the product. The term is sometimes misused in that its numerical value is said to be directly related to coolant quality; the higher the number, the better the coolant. Modern day coolants with OAT technology contain additives which give excellent metal protection without raising the RA number.

Shelflife & storage requirements

Zitrec® EC 20 can be stored for minimum 36 months in unopened recipient without any effect on the product quality or performance. It is strongly recommended to use new not translucent containers and where possible packages with a UV filter. Direct sunlight and high temperatures can degrade the quality of the product. **Zitrec® EC 20** should be stored below 30°C, the minimum temperature depends on the PG concentration. Periods of exposure to temperatures above 35°C should be minimised.

Zitrec® EC 20 is not compatible with galvanized steel.

Compatibility and mixability

- Artec's **Zitrec® EC 20** is compatible with most other heat transfer medium based on propylene or ethylene glycol. Exclusive use is however recommended for optimum corrosion protection and sludge control.

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