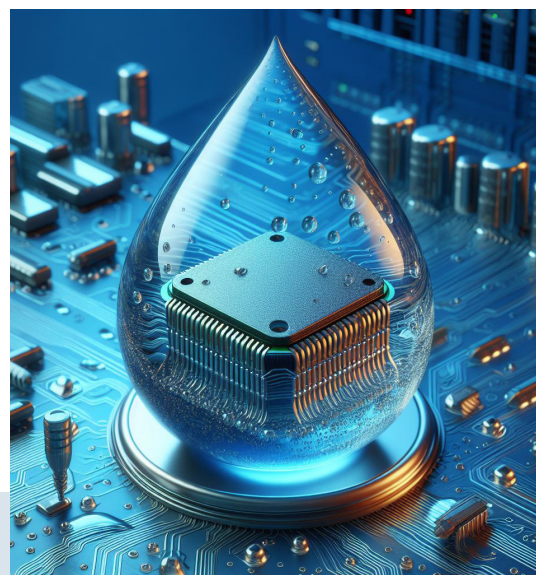


## Zitrec® EC 20

### More than just PG25

**Zitrec® EC 20** is a heat transfer fluid based on high quality grade monopropylene glycol (PG) and a patented organic additive technology package 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 as PG25 and PG55 next to other PG concentrations, combining the benefits of PG with the excellent heat transfer properties of water;
- Biostatic matrix preventing the proliferation of micro-organisms.



### 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, ... ,
- Compatible with most common tubes, hoses and seals.



### Environment and safety

- Non-classified formulation according to EU, US and Chinese 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**, using coldplate cooling in the **Technology Cooling System (TCS)**, also known as the secondary loop.



*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**



**Drum**



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@arteeco-coolants.com](mailto:info@arteeco-coolants.com).

## Addendum - Technical information

### Chemical and Physical Properties

Property	Zitrec® EC 20 25% PG	Unit	Method	OCP Guidelines	ASHRAE
Appearance	clear liquid				
Propylene glycol	25	vol. %		24.5 - 27.5	
Freezing point (°C)	-11	°C	ASTM D1177	-13 to -10	
pH (20°C)	8.7		ASTM D1287	8.5 - 10.5	8.0 - 9.5
Reserve Alkalinity	2.9	ml	ASTM D1121	to report	
Chloride	0	ppm	IC	< 10	< 5
Sulfate	0	ppm	IC	< 10	< 10
Total Hardness as CaCO <sub>3</sub>	0	ppm	ICP	< 25	0
Turbidity	1	NTU			< 20
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	

## 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

- Arteco'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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Version 202504-v02