

Zitrec[®] EC 20

Propylene glycol based heat transfer fluid

Zitrec[®] EC 20 is a concentrated heat transfer fluid based on high quality grade polypropylene glycol. The well-selected combination of non-depleting corrosion inhibitors, protect the application from corrosion and degrading.

Zitrec[®] EC 20 is specially designed for the cooling of electronic components.



PRODUCT BENEFITS



Efficient heat transfer

- The product's high thermal output allows a high thermal resistance in the system, effectively meeting the demands of advanced next-generation electronics that generate substantial heat;
- In combination with a thermostat, the temperature can be controlled within an optimum range.



Reliability

- Depletion free and stable inhibitor package;
- Long life protection against all forms of corrosion by the use of optimised and patented organic corrosion inhibitors.
- Concentrated version: can be diluted with demineralised water to obtain the desired requirements.



Material compatibility

- Provides high-temperature corrosion protection for metal surfaces such as aluminium, copper and stainless steel.



Environment and safety

- Non-harmful propylene glycol (PG) basefluid with long lasting carboxylic additives.

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, Glycol cooled CRAC (Computer room AC units), Datacom Equipment Center Cooling** and **Glycol loop heat transfer exchangers**.



Power Electronics



Edge Computing



Servers



High Performance Computing

This coolant is not intended to be used as an engine coolant.

To ensure good corrosion protection it is recommended to use at least 33vol.% of **Zitrec® EC 20** in the coolant solution. This provides freezing protection to -16.4°C. A 40/60 ready-mix solution will offer a freezing protection down to -20°C.

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** can be made available in different types of packages.

A 40% dilution (**Zitrec® EC 21**) is readily available in 1000l IBC's.



IBC 1000L



Fluo green

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	Unit	Method
Propylene glycol	93	% w/w	
Other glycols	0.5 max.	% w/w	
Inhibitor content	5	% w/w	
Water content	4 max.	% w/w	ASTM D1123
Nitrite, amine, borate	-		
Specific gravity (20°C)	1.042 typ.		ASTM D1122
Equilibrium boiling point	163	°C	ASTM D1120
Reserve alkalinity	5.7 typ.		ASTM D1121
Refractive index	1.431 typ.		

Chemical and Physical Properties - Dilutions

	<i>40% dilution</i>	Unit	<i>Method</i>
pH	8.8		ASTM D1287
Freezing point	-20	°C	ASTM D1177
Specific gravity (20°C)	1.034 typ.		ASTM D5931
Hard water stability	no precipitate		

Shelflife & storage requirements

Zitrec® EC 20 can be stored for minimum 8 years 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 above -20°C and below 30°C. 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.
- Use of deionised or distilled water to prepare the ready-to-use dilutions for controlled quality is advised. We refer to our product information leaflet on water quality recommendations.

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