

ZITREC® EC 10 is a premium ready to use **biostatic water-based** direct-to-chip liquid coolant based on patented OAT-technology customised for data centers and other electronic applications.

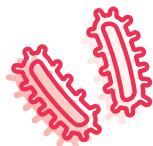


ZITREC® EC 10
Water-based

Product Highlights



Water-based



Biostatic



Low toxic



High protection of all
wetted materials

ZITREC® EC 10 Key Features

Base Fluid	Water
Technology	Patented OAT Technology
Characteristics	<ul style="list-style-type: none">For applications that do not need boil and freeze protectionBiostatic formulation without the use of biocides*Readily biodegradableExcellent heat transfer properties (better than PG25)Low viscosity (lower pump power usage)
Corrosion protection	Corrosion protection for aluminium, copper, stainless steel, brass, ...

Compatibility High compatibility with most common elastomers and thermoplastics, ensuring integrity and performance of system components

Colors upon request

Packaging

- IBC 1000l
- Drums 208/210l
- Pails 20l

Safety

- Nitrite-free
- Borate-free
- 2-EHA free technology
- Non-classified

*The product contains no intentionally added biocides.



ZITREC® EC 10 Chemical and Physical Properties

	ZITREC® EC 10	Method	OCP requirements	ASHRAE requirements
Appearance	clear liquid	visual		
Nitrite, amine, phosphate, borate, silicate	-			
Specific gravity (20°C)	1.003 kg/l	ASTM D5931		
Refractive Index (20°C)	1.337	ASTM D1218		
pH (20°C)	8.5	ASTM D1287	8.0 – 10.5	8.0 - 9.5
Total hardness as CaCO ₃	0 ppm		< 30	< 0
Turbidity	1 NTU		< 5	< 20
Chloride	2 ppm		< 50	< 5
Microbiological control-bacteria	0 cfu/ml		< 1	< 100

Shelflife and storage requirements

ZITREC® EC 10 can be stored for **minimum 2 years** in unopened recipient without any effect on the product quality or performance. It is strongly recommended to use new non-translucent containers and where possible packages with a UV filter. Direct sunlight and high temperatures can degrade the quality of the product. ZITREC® EC 10 should be stored above 0°C and below 35°C. Periods of exposure to temperatures above 35°C should be minimised.

Compatibility and mixability

ZITREC® EC 10 is compatible with most other heat transfer media based on water, propylene glycol (PG) or ethylene glycol (EG). Exclusive use is however recommended for optimum corrosion protection and sludge control. ZITREC® EC 10 is not compatible with galvanized steel.

Toxicity and safety

For toxicity information, safe handling and disposal of the product, we refer to the Safety Data Sheet.

Sustainability

The demineralised water utilised in our product manufacturing is sourced from local surface water and processed through an advanced water treatment method, thereby decreasing dependence on municipal drinking water supplies.



Technical datasheets are available upon request.

Want to know more?
Don't hesitate to contact us via info@arteco-coolants.com



Which ZITREC® EC to choose?

ZITREC® EC 10 ZITREC® EC 20 ZITREC® EC 30 ZITREC® EC 40

	Base Fluid	Water	PG	EG	EG
Technology					
Most important characteristics	<ul style="list-style-type: none"> Waterbased & biostatic (without use of biocides¹) Globally non-classified High protection of all wetted materials 	<ul style="list-style-type: none"> Option for recycled PG as base fluid (Bio-PG coming soon!) Globally non-classified Excellent aluminium protection at elevated temperatures 	<ul style="list-style-type: none"> Excellent aluminium corrosion protection at elevated temperatures, including a brazing flux compensation package Bio-EG coming soon! 	<ul style="list-style-type: none"> Reduced electrical conductivity, mitigating the effects of a short circuit Bio-EG coming soon! 	
Freezing point					
Freezing point	0°C	-11°C (25v%PG)	-14°C (25v%EG)	-37°C (50v%EG)	
Boiling point					
Boiling point	100°C	105°C (25v%PG)	103°C (25v%EG)	111°C (50v%EG)	
Leak detection package					
Readily biodegradable	✓	✓	✓	✓	✓
Low toxicity					
Bacteriostatic	✓	✓	✓	✓	✓
Corrosion protection					
Compatibility	Corrosion protection for aluminium, copper, stainless steel, brass, ...				
Compatibility					
Compatibility	High compatibility with various elastomers and thermoplastics, ensuring integrity and performance of system components.				

¹These products contain no intentionally added biocides.

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