



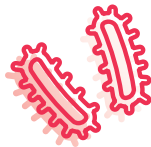
ZITREC® EC 20
PG25

ZITREC® EC 20 is a premium ready to use **PG25** direct-to-chip liquid coolant based on patented OAT-technology customised for data centers and other electronic applications.

Product Highlights



Option for recycled PG



Biostatic



Globally non-classified



Excellent aluminium protection at elevated temperatures



Option for leak detection package

ZITREC® EC 20 Key Features

Base Fluid	Propylene Glycol		
Technology	Patented OAT Technology		
Characteristics	<ul style="list-style-type: none"> • Long term compatibility for all wetted materials at elevated temperatures • Expected to be readily biodegradable • Biostatic matrix inhibiting growth of micro-organisms 	Compatibility	High compatibility with most common elastomers and thermoplastics, ensuring integrity and performance of system components
		Colors	upon request
		Packaging	<ul style="list-style-type: none"> • IBC 1000l • Drums 208/210l • Pails 20l
Corrosion protection	High-temperature corrosion protection for aluminium, copper, stainless steel, brass, ...	Safety	<ul style="list-style-type: none"> • Nitrite-free • Borate-free • 2-EHA free technology • Non-classified



ZITREC® EC 20 Chemical and Physical Properties

	ZITREC® EC 20 - 25%PG	Method	OCP requirements	ASHRAE requirements
Appearance	clear liquid	visual		
Propylene glycol	25 vol%		24.5 - 27.5 vol%	
Freezing point	-11°C	ASTM D1177	-13°C to -10°C	
Nitrite, amine, phosphate, borate, silicate, 2-EHA	-			
Reserve Alkalinity	2.9 ml	ASTM D1121	to report	
Density (20°C)	1.028kg/l	ASTM D5931		
Density (15°C)	1.030 kg/l	ASTM D5931		
Refractive Index (20°C)	1.336	ASTM D1218		
pH (20°C)	8.7	ASTM D1287	8.0 - 10.5	8.0 - 9.5
Total hardness as CaCO ₃	0 ppm	ICP	< 25	0
Turbidity	1 NTU			< 20
Sulfate	0 ppm	IC	< 10	< 10
Chloride	0 ppm	IC	< 10	< 5
Microbiological control-bacteria	0 cfu/ml		< 1	

Shelflife and 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 non-translucent containers and where possible packages with an 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 in combination with direct sunlight should be minimised.

Toxicity and safety

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

Compatibility and mixability

ZITREC® EC 20 is compatible with most other heat transfer media based on propylene glycol (PG) or ethylene glycol (EG). Exclusive use is however recommended for optimum corrosion protection and sludge control. ZITREC® EC 20 is not compatible with galvanized steel.

Sustainability

ZITREC® EC 20 can be offered in variants where the PG is (partially) sourced from bio-based and/or recycled sources. This helps reduce the product's carbon footprint and contributes to CO₂ reduction goals.

We apply a mass balance methodology during production to ensure full traceability of non-fossil based inputs. However, the availability of bio-based and recycled PG depends on market supply and conditions, which may affect the proportion of its content in the final product. For the exact reduction in environmental impact we refer to the LCA one-pagers.

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.



Which ZITREC[®] EC to choose?

	ZITREC [®] EC 10	ZITREC [®] EC 20	ZITREC [®] EC 30	ZITREC [®] EC 40
Base Fluid	Water	PG	EG	EG
Technology	Patented OAT 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 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	0°C	-11°C (25v%PG)	-14°C (25v%EG)	-37°C (50v%EG)
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	Corrosion protection for aluminium, copper, stainless steel, brass, ...			
Compatibility	High compatibility with various elastomers and thermoplastics, ensuring integrity and performance of system components.			

Technical datasheets are available upon request.

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

¹These products contain no intentionally added biocides.

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