

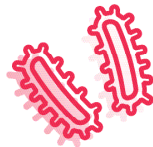
ZITREC® EC 20 is a premium **PG25** direct-to-chip liquid coolant solution based on patented OAT-technology which meets OCP inspired PG25 specifications customised for data centers and other electronic applications.



Product Highlights



Option for recycled PG and available in concentrate



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	• 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
		Offering	Available as PG25, PG55 and Concentrate
		Colors	upon request
		Packaging	• IBC 1000l • Drums 208/210l • Pails 20l
Corrosion protection	High-temperature corrosion protection for aluminium, copper, stainless steel, brass, ...	Safety	• Nitrite-free • Borate-free • 2-EHA free technology • Non-classified



ZITREC® EC 20 Chemical and Physical Properties

	ZITREC® EC 20 PG25	Method	OCP requirements	ASHRAE requirements
Appearance	clear liquid	visual		
Propylene glycol	25 vol%		24.5 - 27.5 vol%	
Propylene glycol purity	99.5 wt%	ASTM D7922	≥ 99.5%	
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	
Dynamic Viscosity (20°C)	3.0 cP	ASTM D2983		
Specific Heat (20°C)	3.91 kJ/kg.K	ASTM D7896		
Thermal Conductivity (20°C)	0.457 W/mK	ASTM D7896		

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 is also available as ECO coolant offering a significantly reduced Product Carbon Footprint (PCF) compared to the virgin fossil-based equivalent, with no compromise on quality or performance.

Our ZITREC EC 20 ECO incorporate base fluids derived from bio-based or recycled raw materials, allocated through a certified mass balance approach.

For additional details, please reach out to us.

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	PG/EG	PG/EG
Technology	Patented OAT Technology			
Most important characteristics	- Waterbased & biostatic (without use of biocides¹) - Globally non-classified - High protection of all wetted materials	- Excellent aluminium protection at elevated temperatures - Globally non-classified	- Excellent aluminium corrosion protection at elevated temperatures, including a brazing flux compensation package - Globally non-classified*	- Reduced electrical conductivity, mitigating the effects of a short circuit - Globally non-classified*
Freezing point	0°C	-11°C (PG25)	-11°C (PG25)	-11°C (PG25)
Boiling point	100°C	105°C (PG25)	105°C (PG25)	105°C (PG25)
Leak detection package	✓	✓	✓	
Concentrate available	✓	✓		
Readily biodegradable	✓	✓	✓	✓
Low toxicity	✓	✓	✓ *	✓ *
Bacteriostatic	✓	✓	✓	✓
Corrosion protection	Corrosion protection for copper, aluminium, stainless steel, brass, ...			
Compatibility	High compatibility with various elastomers and thermoplastics, ensuring integrity and performance of system components.			

* applicable for the PG-based version



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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