

METALGUARD® E-5500

Low-Conductivity Coolant $\leq 5 \mu\text{S/cm}$

Ready-to-Use

Product Overview

WEBA Technology offers finished low-conductivity coolants for customers who do not have access to low-conductivity deionized water and/or ethylene glycol. **METALGUARD® E-5500** Coolant meets ASTM D8565 which is the specification for hydrogen fuel cell coolant which has a requirement of finished coolant with $\leq 5 \mu\text{S/cm}$ (microsiemens/cm) in the finished product.

E-5500 Coolant is designed for use in hydrogen fuel cell powered vehicles, other proton exchange fuel cells, large transformer systems, data storage centers and other applications requiring a very low-conductivity fluid. This coolant may also be used in electric vehicles. E-5500 Coolant maintains a stable, low-conductivity over long periods of time through its proprietary formulation of non-ionic corrosion inhibitors. This mechanism is essential to maintain safe operation of fuel cell powered vehicles.

E-5500 Coolant protects aluminum, copper, brass, stainless steel, and titanium, but it is not compatible with carbon steel, cast iron, or zinc/galvanized steel. It is compatible with most elastomers and other materials including silicon rubber, Viton, EPDM and graphite.

E-5500 Coolant is ready-to-use. Addition of any non-tested deionized water, or even low-conductivity glycol, may increase conductivity and reduce corrosion protection. Conventional coolant should never be added to METALGUARD® E-5100 coolant and this coolant should not be used in internal combustion engine cooling systems. Additionally no dye or colorant of any type should be added to the finished coolant. Even a small amount of such ionic solutions will cause a dramatic increase in the fluid's electrical conductivity.



Product Specifications

METALGUARD E-5500 Coolant (50/50)

Visual	No color
Specific Gravity; 21°C (70°F)	1.070 - 1.080
pH	5.7 - 6.3
Freeze Point	-36°C (-34°F)
Electrical Conductivity	≤ 5 microsiemens/cm



Features & Benefits

- Direct battery cooling in electric vehicles
- Large transformer cooling systems
- Cooling of fuel cells in vehicles and other equipment powered by them
- Immersion cooling of computer components in data storage centers for computers and AI
- Electrical welding torches
- Certain optical and medical devices



ASTM Standards

- Meets ASTM D8565 for hydrogen fuel cells



Packaging

- 55-gallon / 208-liter drums
- 275-gallon / 1041-liter totes
- Bulk tank truck



Quality Control & Technical Support

WEBA's products must pass rigorous quality control tests. They are tested for conformance with any product specifications and industry standards. Certificate of analysis are provided with every shipment. WEBA Technology can help with many other questions relating to anti-freeze and glycols, and assist with issues on any products containing our inhibitor packages.



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