

METALGUARD® E-5100

Low-Conductivity Fluid $\leq 100 \mu\text{S}/\text{cm}$

Ready-to-Use

Overview

WEBA Technology offers finished low-conductivity fluids for customers who do not have access to low-conductivity deionized water and/or ethylene glycol. METALGUARD® E-5100 fluid meets ASTM D8566, the specification for low-conductivity electric vehicle coolant, which has a requirement for finished coolant with ≤ 100 microsiemens/cm.

E-5100 finished fluids can be used in electric vehicles requiring $\leq 100 \mu\text{S}/\text{cm}$ (microsiemens/cm). E-5100 fluids 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 battery-powered vehicles in which the coolant directly contacts the battery parts.

Inhibited METALGUARD® E-5100 fluid protects aluminum, copper, brass, stainless steel, and titanium. It is compatible with most elastomers and other materials including silicon rubber, Viton, EPDM and graphite. It is not compatible with carbon steel, cast iron, or zinc/galvanized steel.

The E-5100 fluid is ready-to-use. Any non-tested deionized water for top-off, or even standard virgin glycol, may increase conductivity and reduce corrosion protection. Conventional antifreeze/coolant should never be added to E-5100, and low-conductivity coolant should never be used in internal combustion engine cooling systems. Additionally, no dye or corolant, of any type, should be added to E-5100 coolant. Even a small quantity of such ionic solutions will cause a dramatic increase in the fluid's electrical conductivity.



Features & Benefits

- Ready-to-Use low-conductivity coolant for electric vehicles
- Contains non-ionic corrosion inhibitors
- Fluid maintains a stable, low-conductivity



Industry Applications

- Electric vehicles



Specifications

- Meets ASTM D8566 for electric vehicles



Quality Control & Technical Support

WEBA's products must pass rigorous quality control tests. They are tested for conformance with product specifications and industry standards. Certificates of analysis are provided with every shipment. WEBA Technology can help with many technical questions relating to the finished fluids our additives create, types of glycol and other bases, and assist with issues on products containing our inhibitor packages.



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Product Specifications

E-5100 (in water base)

Visual	No color
Specific Gravity; 21.1°C (70°F)	1.000 - 1.010
pH	5.7 - 6.3
Freeze Point	0°C (32°F)
Electrical Conductivity	≤25 μS/cm



Product Specifications

E-5150-EG (50% ethylene glycol base), by volume

Visual	No color
Specific Gravity; 21.1°C (70°F)	1.050 - 1.060
pH	5.7 - 6.3
Freeze Point	-37°C (-34°F)
Electrical Conductivity	≤25 μS/cm



Product Specifications

E-5150-PG (50% propylene glycol base), by volume

Visual	No color
Specific Gravity; 21.1°C (70°F)	1.030 - 1.040
pH	5.7 - 6.3
Freeze Point	-34°C (-29°F)
Electrical Conductivity	≤25 μS/cm

Product Specifications

E-5135-EG (35% ethylene glycol base), by volume

Visual	No color
Specific Gravity; 21.1°C (70°F)	1.030 - 1.040
pH	5.7 - 6.3
Freeze Point	-19°C (-3°F)
Electrical Conductivity	≤25 μS/cm

Product Specifications

E-5135-PG (35% propylene glycol base), by volume

Visual	No color
Specific Gravity; 21.1°C (70°F)	1.020 - 1.030
pH	5.7 - 6.3
Freeze Point	-17°C (1°F)
Electrical Conductivity	≤25 μS/cm

The specifications listed in this bulletin are based on products produced with WEBA's additive packages, virgin glycol and deionized water. To confirm that your finished products meet the required industry specifications, WEBA recommends that you test your glycol and finished products at an accredited laboratory. WEBA will warrant our additive packages only if this procedure and the recommended blending and storage procedures are properly followed and documented. In addition, the glycol or other base fluid used with our additive systems should meet industry or ASTM standards unless specifically exempted in our literature.