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## Radiator & Cooling Products



Item #96000

### KOOL-IT® Electrolysis Indicator

There are two types of electrolysis that can occur in your vehicle!

1. *The chemical type* occurs in all vehicles and is a natural result when coolant (electrolyte solution) flows through a system composed of different types of metals (iron, , copper, or brass). The coolant acts as the conductor through which small amounts of current are transferred between metals in the cooling system. Over the passage of time this very small amount of current (less than 0.3 volts) can cause damage to metal surfaces (especially aluminum). Given enough time, the damage will cause a leak to develop. KOOL-IT Supreme Coolant Treatment (P/N: 96001) provides long term protection from the chemical electrolysis damage by forming a passive, non-reactive, molecular surface film that prevents damage to the metal.

2. *The electrical type* of electrolysis is much more destructive and is caused by faulty electrical components that deliver stray current (over 0.3 volts) through the cooling system. This may be caused by a faulty ground or a shorted wire near the cooling system. Stray current introduced into a system this way can be strong enough to cause severe damage very quickly. The only way to prevent damage from this type of electrolysis is to mechanically correct this problem at the source. Thanks to the new Kool-It Electrolysis Indicator finding the stray current has never been easier!

The KOOL-IT® Electrolysis Indicator™ is the simple to use and easy to understand solution for diagnosing the excess stray current levels in cooling systems, commonly called “electrolysis”. It’s the perfect tool to visually diagnose this destructive and poorly understood condition, so common in today's cars and trucks.

#### Directions For Use:

##### Step 1- Determine if electrolysis is present

- Remove the radiator cap from the radiator OR you can also test for electrolysis in the reservoir if the radiator is not accessible by first removing the reservoir cap. **CAUTION: Do not remove the radiator cap when the engine is hot.**
- Make sure all accessories are turned off.
- Start engine.
- Attach the alligator clip at the end of the black wire to the negative terminal of the battery or to another viable chassis ground.
- Insert the tip of the KOOL-IT Electrolysis Indicator into the coolant via the radiator or reservoir. **CAUTION: Make sure all wires and the KOOL-IT Electrolysis Indicator are clear of the belts and all rotating accessories.**
- Upon contact with the coolant the KOOL-IT Electrolysis Indicator will power up with both the red and green LED's illuminated for three seconds. Leave the illuminated KOOL-IT Electrolysis Indicator in the coolant at all times while it determines the level of electrolysis present in the system & only one LED remains lit.
- Check the KOOL-IT Electrolysis Indicator. If the green LED is lit the system is in satisfactory condition with electrolysis below <0.3 volt. If the LED is red the system has electrolysis above >0.3 volt and is unacceptable. Read action to take below.
- Remove the KOOL-IT Electrolysis Indicator from the coolant, disconnect the alligator clip, and replace the

radiator cap (or reservoir cap).

- The KOOL-IT Electrolysis Indicator will power down in three seconds and reset after removal from the coolant. . Rinse the submerged portion of the KOOL-IT Electrolysis Indicator to clean and then store properly for its next use.

**Action to take:**

**Green LED (GOOD)** - No action is required. Levels of electrolysis are in an acceptable range. Add KOOL-IT Supreme Radiator Treatment (P/N: 96001) to protect the system and extend the life of the coolant.

**Red LED (BAD)** - Electrolysis (Stray current) is above acceptable levels. First determine if the coolant is new or old. If the coolant is old, proceed by flushing it out using KOOL-IT Radiator Flush (P/N: 95020) and refill with new coolant. Re-test the coolant by repeating the INSTRUCTIONS FOR TESTING WITH ALL ELECTRICAL LOADS OFF. If the red LED illuminates again there is certainly an electrical system fault or bad ground that is introducing destructive levels of current to the cooling system. This indicates there's potentially damage already to the radiator and heater core and they should be checked. Proceed to find the source of the stray current ideally before it causes more damage. Once the electrical load(s) causing the stray current has been fixed add KOOL-IT Supreme Radiator Treatment (P/N: 96001) to protect the system and extend the life of the clean coolant.

**Availability**

<b>Item #</b>	<b>Item Name</b>	<b>Unit Size</b>	<b>Case Qty</b>
96000	KOOL-IT® Electrolysis Indicator	1 Tool	3.85 lbs. (12/case)

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