



Detecting Excess Water in Fuel

All of the filters below remove particulate and detect free or emulsified water. When water passes through these filters, the water detection material swells and causes reduced flow. Slow flow notifies the operator that water is present and action is required.

HYDROSORB® FILTERS

- For gasoline, diesel, and ULSD
- Feature proprietary Microglass-Cellulose hybrid outer pleat pack and inner water detection material between Microglass-Cellulose laminate

**Do not detect phase separation in ethanol blends*

HYDROGLASS FILTERS

ULTIMATE DEFENSE

- For gasoline, diesel/ULSD and biodiesel blends up to 20%, 100% biodiesel
- Feature advanced water detection material between two Microglass layers

**Do not detect phase separation in ethanol blends*

MULTI-FUEL® FILTERS

ULTIMATE DEFENSE

- For gasoline and ethanol blends up to 25%
- Detect phase separation in ethanol blends up to 25%
- Feature proprietary Microglass-Cellulose hybrid outer pleat pack, inner dual layer of proprietary Microglass laminate, and advanced water and phase separation detection material between two Microglass layers

➔ **WHAT IS PHASE SEPARATION?** Phase separation occurs when excess water is present in ethanol blended gasoline. The ethanol binds itself to the water molecules and forms its own layer separate from the gasoline. The result is an upper gasoline layer depleted of ethanol and a bottom layer comprised of ethanol and water.

When Excess Water is Present

While restricted flow is the most obvious and immediate indication that water is present, signs of water contamination in these filters can manifest in any of the following ways:

- Shorter than typical service intervals
- Rapid decrease in system flow rate
- Rapid increase of differential pressure

Be aware that particulate contamination can also create these conditions. Should any of these conditions occur or persist, this may indicate a potentially larger scale issue. It's important to pay attention to changes that occur in your fueling system and to act when concerned about the presence of water or other contaminants.