



*The First in Synthetics*®

## Cold Flow Improver with Deicer for Diesel Fuel



### **PRODUCT DESCRIPTION**

AMSOIL Cold Flow Improver (ACF) is formulated with an advanced deicer to enhance fuel flow and help prevent fuel filter plugging in cold temperatures. It is formulated for a broad range of diesel fuels, including #1 diesel, #2 diesel, biodiesel and ultra-low-sulfur diesel (ULSD).

### **Reduces Need for #1 Diesel Fuel**

One traditional solution to cold weather problems in diesel fuel is using #1 diesel fuel, which is diluted with kerosene. While #1 diesel fuel has an advantage in low-temperature operability, it has several disadvantages. The energy content of #1 diesel fuel is about 95 percent that of #2 diesel fuel, resulting in reduced fuel economy and less horsepower. In addition, the kerosene used in #1 diesel fuel provides less lubrication for the fuel pump and fuel distributor, increasing the likelihood for wear on these critical components. AMSOIL Cold Flow Improver minimizes the need for blending standard #2 diesel fuel with lower-quality #1 diesel fuel, helping to maintain fuel economy and keep engines functioning normally.

### **Superior Cold Filter Plugging Point Depression**

As the temperature drops, the wax naturally found in diesel fuel begins to form crystals. The point at which wax crystals form is known as the cloud point. These wax crystals eventually clog the fuel filter and starve the engine of fuel, preventing it from starting. While low-quality fuels may form wax crystals in temperatures as warm as 40°F (4°C), most fuels have a cloud point near 32°F (0°C). The point at which the crystals clog the fuel filter is known as the cold filter plugging point (CFPP). AMSOIL Cold Flow Improver lowers the CFPP by as much as 34°F (19°C) in ULSD.



## ***Additional Benefits***

AMSOIL Cold Flow Improver uses a jet-fuel-type deicer that disperses water to control ice formation throughout the fuel system. It inhibits wax crystal formation and can improve diesel pour point by as much as 58°F (32°C), allowing fuel to flow to the engine more easily and improving diesel engine reliability in cold temperatures.

## ***Concentrated ACF vs. ACF Blended with Fuel***

AMSOIL Cold Flow Improver will not show any signs of solidifying until the temperature reaches -22°F (-30°C). Still, AMSOIL recommends storing Cold Flow Improver at temperatures above 0°F (-18°C). AMSOIL Cold Flow Improver will only freeze in its concentrated state, not when it is mixed with fuel. It is designed to be mixed with diesel fuel, at which point ACF dissolves and effectively improves diesel fuel cold-temperature properties. Freezing will not harm ACF and it can be used after it is thawed.

## ***Application Information***

AMSOIL Cold Flow Improver is specially formulated for improving the flow of fuel, helping to maintain the integrity of fuel and preventing the clogging of filters and injectors. It is excellent for use with diesel fuels, heating oils and kerosene. Two oz. of AMSOIL Cold Flow Improver treats five gallons of fuel, or one 16 oz. bottle for 40 gallons. The clear bottles feature an easy-to-read graduation label for accurate dispensing, helping to ensure proper treat ratios.

**DANGER: COMBUSTIBLE. HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. EYE AND SKIN IRRITANT. KEEP OUT OF REACH OF CHILDREN.** Carefully read precautions on label of AMSOIL Cold Flow Improver container before use. A Material Safety Data Sheet (MSDS) is available online at [www.amsoil.com](http://www.amsoil.com) or upon request at (715) 392-7101.

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*AMSOIL products and Dealership information are available from your local AMSOIL Dealer.*

