



# data sheet

DT5 PLUS Concentrated Diesel Treatment

## DT5 PLUS Concentrated Diesel Treatment

1. **Surfactant** - breaks surface tension of water, controls sludge, fungus and aids in its removal from the fuel system.
2. **Detergent** - helps clean fuel system, cylinders and exhaust.
3. **Poly Butane Ashless Lubricant** - assists in lubrication of vital components in pumps, injectors and upper engine area to reduce wear that could be associated with low sulphur diesel fuel.
4. **Cold Flow Improver** - helps prevent the formation of wax at low ambient temperatures.
5. **Combustion Modifier** - helps smooth flame progression for more complete combustion of fuel and reduction of emissions.

### Product Information

Pro-Ma Performance Products DT5 Plus has been in use since its formulation in 1953, by many large commercial and industrial enterprises. It is manufactured by the same company that has produced DT5 Plus and other quality fuel products since 1909.

Since its conception DT5 Plus has always proven extremely effective, when used consistently, in producing significant savings in areas of fuel consumption, maintenance, downtime and repair costs.

Significant improvements have been made to the active ingredients in order to increase performance in conjunction with new engine design. DT5 Plus is a product that has been proven to be more relevant and advantageous today than when first invented.

**DT5 Plus will not harm trap oxidizers, converters, vehicle computers or particulate traps.**

### Application

DT5 Plus is suitable for light distillate fuel in the following types of Diesel Engines: 4-Stroke, 2-Stroke, Automotive, Marine and Stationary. It is beneficial for all naturally aspirated and turbo-charged engines.

### Cleans

DT5 Plus contains a Detergent which is designed to help remove diesel fuel and oil related deposits such as gums, varnishes, and carbon residues. Continuous use of DT5 Plus will provide engine deposit control by removing and inhibiting the build up of deposits in the combustion chamber, ring grooves, valves, pump and injectors. This can result in prolonged engine and compo-



nent life, increased operating efficiency and decreased fuel consumption.

### Disperses

DT5 Plus contains a Dispersant that is designed to break down fuel related sludge and oxidation residues into small particles that are less than a micron in diameter. Because of the dispersant action, fuel filter and injector blockages are minimized and filter life is extended

### Controls Wax

DT5 Plus contains a Cold Flow Improver. The pour point is the temperature at which wax laden fuel will barely flow. The wax actually solidifies several degrees below the pour point. The pour point is frequently used as an indicator of fuel performance in extreme temperatures. The criteria used in evaluating the effectiveness of a flow improver in fuel at temperatures near the pour point is referred to as the 'Pumpability Test.'

In a laboratory applying the 'Pumpability Test' to the DT5 Plus, the flow improver lowered the pour point by 9-17°C (17-31°F) in three different fuels. The result will vary with the quantity of 'kerosene' in the fuel.

The Cold Flow Improver will reduce or eliminate the tendency for fuel filters to block fuel flow in wax laden fuel at low ambient temperatures.

### Controls Water

DT5 Plus contains a Water Control Agent that helps to remove water from vehicle fuel tanks, lines and bulk storage tanks. The control agent breaks water droplets into particles that are approximately 1 micron in diameter and disperses them into the fuel. This water passes through the entire fuel system in microscopic form and is converted to steam in the combustion chamber. When water is removed from the fuel system, rust is prevented and microbiological (algae) growth at the water-fuel interface is controlled.

### Improves Power and Economy

DT5 Plus contains a Combustion Modifier which enables the fuel to burn more completely in the cylinders. This reduces or eliminates black smoke from the exhaust and results in increased power and economy by converting more of the heat energy in the fuel into useful work. Government Department Certified Tests have shown a 9.5% horsepower improvement, while delivering a 10% improvement in fuel economy.

No special tuning of the engine is required when using DT5 Plus. In addition to the improvement to the combustion area, crankcase contamination is greatly reduced by control of water caused through condensation. The reduction of unburnt carbon and the freeing of piston rings in their grooves further reduces contamination accrued during or from blow-by, leaving the crankcase clear of sludge and other deposits. These results have been noted in engines dismantled and checked after exceeding 300,000 km.

### Dosage

#### Individual Vehicle

For use in individual vehicles or engines where diesel fuel is purchased from service stations, DT5 Plus should be added directly to the vehicle fuel tank preferably just before filling. The recommended treatment ration is 20 mL of DT5 Plus to 20 litres of fuel.

#### Bulk Storage

When used in bulk storage tanks at the time of refilling, add 1 litre of DT5 Plus for each 1000 litres of fuel. The DT5 Plus will quickly disperse throughout the tank. Continuous usage can control water and future condensation and remove old deposits from vehicle engines.

### Composition

DT5 Plus is a balanced compound of ashless organic materials

in a pure hydrocarbon solvent. DT5 Plus is completely soluble in diesel fuel.

U.S. TESTING COMPANY, INC. Report #77147 (#900 Performance Diesel Treatment) Summary: 'The material under the conditions of test, manifested itself to be non-corrosive, volatile and without any significant acidic or alkaline properties.'

### The Regular Use of DT5 Plus can

- Improve performance
- Reduce fuel consumption
- Clean injectors
- Reduce water problems
- Control bacteria in the fuel system
- Prevent rust in fuel tanks
- Reduce exhaust smoke and emissions
- Extend fuel filter life
- Remove carbon build up
- Prevent sludge in the fuel tank
- Reduce maintenance and downtime
- Maintain turbo-charger cleanliness and efficiency

### Specifications

Specific Gravity @ 15.5°C (60°F) (ASTM D-92).....	0.801
Gravity API @ 15.5°C (60°F).....	45.1
Flash Point (C.O.C.) (ASTM D-1298).....	48.8°C (120°F)
Pour Point (ASTM-D-97).....	Below -65°C (-85°F)
Colour.....	Amber
Initial Boiling Point.....	155°C (311°F)
Final Boiling Point.....	302.2°C (576°F)
Ash Content @ 500°C (932°F).....	Less than 0.005%
Viscosity, kinematic @ 40°C (104°F) (ASTM D-445).....	1.51cSt

NOTE:DT5 PLUS CONTAINS NO METHANOL, ETHANOL OR ISOPROPANOL ALCOHOLS.

### Handling

Contains petroleum distillates. **Do NOT store near heat, sparks or flame.** Wash with soap and water if product contacts skin. KEEP OUT OF REACH OF CHILDREN. A Material Safety Data Sheet is available from Pro-Ma Systems.

### Warning

Combustible. Harmful or fatal if swallowed.

### Medical Advice

Contains petroleum distillates. If swallowed, do NOT induce vomiting. Call physician immediately.

### Available Sizes

1 litre, 4 litre, 20 litre and 208 litre.



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