

ZX-P1-02**New model of diesel cold flow improving agent**

General Description

New model of Diesel cold flow improving agent ZX-P1-02, also known as diesel low-temperature fluidity improver, is a commonly used additive in diesel production. Diesel pour point depressants play an obvious role in increasing diesel production in oil refineries, enhancing production flexibility and the ratio of diesel to gasoline, and improving economic benefits. For the storage, transportation and users of diesel, the application of pour point depressants can significantly improve its low-temperature performance.

Two important indicators for evaluating the low-temperature performance of diesel are the cold filter point and the freezing point. The grade of diesel (0 #, -10 # or -20 #) is an indicator reflecting the freezing point of diesel. The cold filter point of diesel is 4℃ -6℃ higher than the freezing point. When diesel cools down to the cold filter point temperature, its fluidity will decline, and there will be risks in vehicle operation (such as insufficient power, difficult cold start, and even engine stalling and breakdowns, etc.). Therefore, the cold filter point index of diesel is an important indicator for measuring the low-temperature fluidity of diesel

Composition

Product

Project	Index	Test method
Appearance	Light yellow to brown liquid	Visual inspection
Freezing point, (° C)	≤15	GB/T510
Kinematic viscosity, at 40℃(mm ² /S)	100-500	GB/T265
Density, (kg/m ³)	900 ± 80	GB/T1885

Application and Advantages:

ZX Diesel Cold Flow Improver is specially designed to enhance the flow properties of diesel fuel in low-temperature environments. It prevents fuel from gelling, reduces fuel filter plugging, and improves the engine start-up time in extreme cold weather conditions. This additive is ideal for improving fuel flow and ensuring reliable engine performance in winter months, especially for heavy-duty vehicles and industrial diesel engines.

- *Effectively reduces fuel pour point by up to 15°C, ensuring better fuel flow in temperatures as low as -30°C.*
- *“Proven to improve cold start time by up to 30%, reducing engine wear during cold starts.*

Our fleet operations in northern regions have greatly benefited from ZX Diesel Cold Flow Improver. Engines now start reliably even in extreme cold weather, and we've noticed a reduction in fuel filter clogging.

Unlike traditional cold flow improvers, ZX Diesel Cold Flow Improver provides a wider operational temperature range and a faster cold start time, making it more effective for diesel engines in colder climates.

Usage instructions

1. Before using New model of Diesel cold flow improving agent ZX-P1-02, a small-scale laboratory test should be conducted. Based on the test results, the anti-gelling agent should be added in a certain proportion. The general addition amount is 0.3 - 1%.
2. Using mixing devices such as stirrers and static mixers, mix the components evenly according to the blending ratio. In large tanks, the mixture can be achieved through pump circulation, or in tank vehicles, it can be completed through natural oscillation after long-distance transportation.
3. When the environmental temperature is too low, causing the product to be overly viscous, indirect heating with heat transfer oil, steam, hot water, etc. can be used (strictly prohibit direct heating with open flames). Then, dilute the product with kerosene or diesel in a 1:2 ratio; at the same time, the temperature of the diesel

should be around 40°C, so that the anti-gelling agent and diesel can be fully and evenly mixed to achieve the desired effect.

Storage and packaging:

1. This product should be stored in a cool, dry, and well-ventilated place, protected from water and fire.
2. This product is packaged in iron drums, with a net weight of 170kg per drum.
3. The storage period of this product is one year.