

Cetane-707 (Cetane Improver)

I. Overview

Current Diesel oil Cetane Point rates at around 40~45 points, but since the release of GB/T19147-2003 standard, diesel cetane standard has been increase to 49 points. As the application of premium car, and the increasingly huge production, there are large and urgent demands for high cetane diesel oil. Cetance improver can highly increase Diesel oil cetane points, widely applicable for all kinds of diesel oil with high efficiency. Without changing original refinery process, Cetane improver can increase diesel oil cetane points to GB/T19147-2003 standard whilst enhancing collecting rate of diesel oil.

II. Physical Characteristics

Item	Standard
Appearance	Pale yellow clear liquid
Density(20°C) Kg/m ³	960-980
Viscosity((20°C) mm ² /s	2
Flashing point(closed cup) °C	≥72
Moister %(m/m)	<0.05

III. Product Mechanism

Cetane is used as measure standard for ignition delay, domestic catalyst & coke diesel oil contains lots of aromatics, especially cyclane, diesel oil of this kind contains low cetane points, poor burning performance and will produce large amount of black gas and deposit, which will lead to sharp pressure increase in combustion chamber, increasing noise, weaken start-up function and engine over-wearing. Diesel oil cetane improver decomposed during engine condensing & burning process, and improve diesel oil oxide burning, shorten ignition period, creating engine high compression ratio and reduce engine detonation. Cetane improver can also increase pre-stage burning reaction area and lower combustion chamber temperature.

VI. Function

- 1, Will not change technical standard on Diesel oil Oxide stability
- 2, Obvious cetane increase: use small dosage can increase high cetane points (especially on re-processing diesel oil). Can increase 1-10 points by adding 250-2000ppm additive.
- 3, Reduce environmental pollutant, save fuel oil: Cetane Improver will enhance complete burning of diesel oil reduce tail gas release, save fuel oil.
- 4, Optimize vehicle operation: Cetane Improver can improve fuel oil burning performance, shorten pre-heating period, improve start-up function at low temperature, increase dynamics.

V. Usage

- 1, Recommend dosage: 250-2000ppm (cetane improve effects various as to different fuel oil. Should based on actual data prior to usage)
- 2, In refinery blending work shop, directly added into finished oil with fixed ratio taken from calculation pump.

VI. Package and storage

200L Iron barrel, drum net in 200kg or bulk in ISO tank.

VII. Notes

Wearing safety gloves and goggles, wash with plenty of water if incidentally touched with skin or eyes.