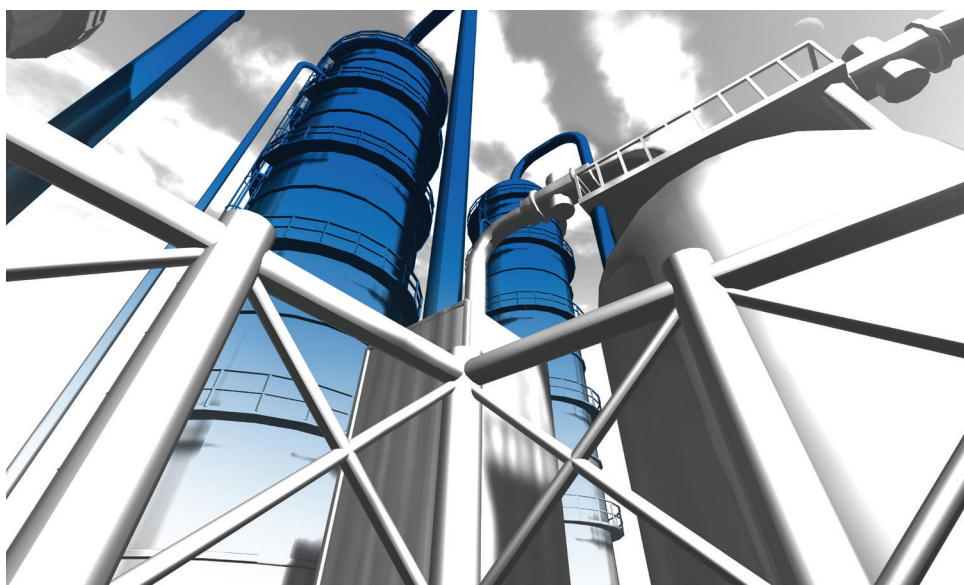


FUELS

# HiTEC<sup>®</sup> 4103

Cetane Improver



Raises the Cetane Number of Both Petrodiesel  
and Biodiesel Fuels

 **Afton<sup>®</sup>**  
CHEMICAL  
Passion for Solutions™

## HiTEC<sup>®</sup> 4103 Cetane Improver

Raises the Cetane Number of Both Petrodiesel and Biodiesel Fuels

### Application

HiTEC<sup>®</sup> 4103 is a cost effective cetane improver additive used to raise the cetane number of both petrodiesel and biodiesel fuels. It lowers exhaust emissions, especially NO<sub>x</sub>, from diesel engines. HiTEC<sup>®</sup> 4103 allows a refinery to increase its profitability by upgrading, for example, FCC light cycle oils from cutter stock to diesel fuel valves.

### Key Performance Benefits

- Optimizes refinery profitability
- Increases the proportion of the crude barrel available for use in the diesel pool
- Improves the ignition quality to give reduced noise, reduced emissions, better cold startability and improved fuel economy
- May be combined with additive packages to upgrade regular diesel to premium quality

### Recommended Dosage

The recommended dosage for HiTEC<sup>®</sup> 4103 will depend on the cetane number and sulfur content of the base fuel and the cetane number desired for the finished fuel. Typical treat rates are from 500 – 5000 ppm. Please contact your Afton Chemical representative for specific recommendations.

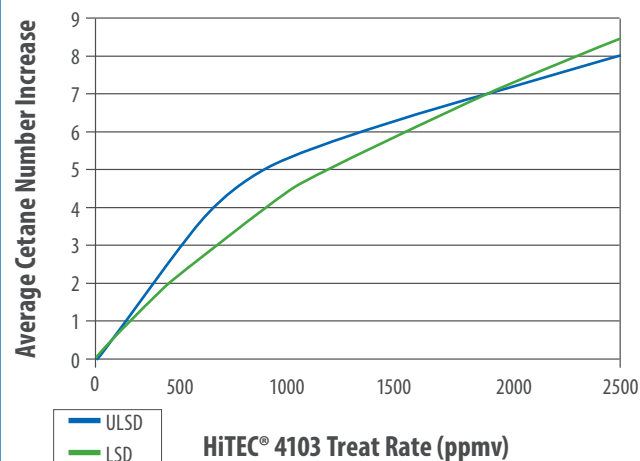
### Typical Characteristics

Appearance	Clear white to pale yellow liquid
Specific Gravity @ 20°C	0.965
Density, lbs/gal.	8.06
Viscosity @ 20°C, cSt	1.8
Flash Point, °C (PMCC)	65 min.
Water, %M	0.05 max.
Total Alkyl Nitrates, %M	99.0 min.

### Handling Information

Max Handling Temp: 70°C  
Shelf Life: 120 months

**Cetane Number Response**  
HiTEC<sup>®</sup> 4103 Response in ULSD and LSD



**Cetane Improver Response Curve**  
Base Cetane Number Impact

