



# Product Information

## ULTRA LOW SULFUR BP DIESEL SUPREME

### PRODUCT DESCRIPTION

Ultra Low Sulfur (ULS) BP Diesel Supreme is a premium diesel fuel with a higher minimum cetane number of 47. We add our exclusive Guardian additive package developed by BP scientists to make it even better. The result is a diesel fuel that meets the recommendations of the Joint EMA/TMC (Engine Manufacturers Association / The Maintenance Council) for detergency and lubricity. This means BP Diesel Supreme delivers improved performance and increased engine durability.

### APPLICATION

Ultra Low Sulfur BP Diesel Supreme is recommended for use in all on-road heavy duty truck, automotive, and bus applications. It is also recommended for all off-road, marine, and stationary diesel engine applications where a lower sulfur content for lower emissions is needed. Whether on the highway, on the farm, or on the construction site, BP Diesel Supreme is the quality choice for your diesel fuel.

### FEATURES

#### High Cetane Number Rating for Superior Ignition Quality –

The cetane number rating of a diesel fuel defines its ignition quality; the higher the cetane rating, the better the quality. BP Diesel Supreme has a higher minimum cetane number rating (D-613) of 47, compared to a cetane number rating of 40 – 45 for regular No. 2 diesel fuels. Compared to regular No. 2 diesels, the higher cetane rating of Supreme means easier ignition and quicker starting at lower temperatures. It also means cleaner burning with reduced smoke and odor while providing faster, smoother warm-ups and quieter operation.

**Enhanced Lubricity** – BP Diesel Supreme is formulated to provide excellent lubricity performance, eliminating the need for other lubricity additives. BP Diesel Supreme extra lubricity gives your equipment solid protection against fuel pump and injector wear - less than 450 micron wear scar measured by the HFFR test, compared to 520 micron ASTM spec.

**Improved Cold Weather Operability** – Compared to a typical No. 2, BP Diesel Supreme improves cold-weather fuel handling properties, lowering the cloud point to 0°F and the pour point to -20°F. With its high cetane level, BP Diesel Supreme will ignite faster for quicker cold-weather starts and faster warm-ups. BP Diesel Supreme maximizes vehicle and equipment engine performance and delivers essential protection during severe winter weather.

**BP's Exclusive Guardian Additive Package** – BP's Guardian Additive Package provides the following benefits:

- A detergent and dispersant to help keep injectors and your fuel system clean. BP Diesel Supreme meets the tough Cummins L-10 injector cleanliness test.
- A demulsifier to help shed water resulting in a reduced potential for corrosion and performance problems caused by wet fuel.
- Stability enhancers that extend the useful storage life of BP Diesel Supreme by providing resistance to gum and resin formation.
- Added thermal stability to withstand the higher fuel temperatures in modern diesel engines.
- A metal deactivator to suppress the production of gum and varnish caused by brass, copper, and other metals in the fuel system.
- A corrosion inhibitor to protect injectors, fuel systems, and storage tanks from damage due to rust or other corrosion.

**Ultra Low Sulfur Content** – Ultra Low Sulfur BP Diesel Supreme easily meets the Federal requirements for fuel sulfur level. Ultra Low Sulfur is required in 2007 and later engines, and recommended for all other diesel engines. Ultra Low sulfur content also helps prevent corrosion of engine parts, helping to reduce wear and tear on your engine. Injectors remain cleaner and deposits are fewer which means reduced oil contamination and significantly less smoke and odor fuels, compared to regular No. 2 diesel fuels.

## ULTRA-LOW SULFUR HIGHWAY DIESEL FUEL

(15 ppm Sulfur Maximum)

### WARNING

*Required* for use in all model year 2007 and later highway diesel vehicles and engines.

Recommended for use in diesel vehicles and engines.

## *Product Information – ULS BP Diesel Supreme*

<b><u>PROPERTY</u></b>	<b><u>TEST METHOD</u></b>	<b><u>LIMIT</u></b>
Ash, wt. %, max.	D-482	0.01
Cetane Number, min.	D-613	47
Cloud Point, °F, max. <sup>(1)</sup>	D-2500	
Summer (3/1 – 9/30)		+20
Winter (10/1 – 2/29)		0
Color, ASTM, max.	D-1500	2.5
Conductivity @ 20 °C, cu, min.	D-2624	50
Copper Corrosion, 3 hrs @122 °F, max.	D-130	3
Distillation, °F	D-86	
Temp.@ 90%, recovered		540-640
Temp.@ Endpoint, max.		690
Flash Point, °F, min.	D-56 or D-93	125
Gravity, °API, min.	D-287	30
Lubricity, HFRR @ 60 °C, micron max.	D 6079	450
Pour Point, °F, max. <sup>(1)</sup>	D-97	
Summer (3/1 – 9/30)		+10
Winter (10/1 – 2/29)		-20
Stability, meet one of the following		
Thermal, % Reflect., 90 minutes, min.	D-6468	75
Oxidation, mg/100mL, max.	D-2274	2.5
Sulfur, total, ppm, max.	D-5453, D-7039	15
Viscosity, cSt @ 40°C, min.	D-445	1.9 – 4.1
Water & Sediment, vol.%, max.	D-2709	0.05

For further information on Amoco fuels, contact:

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