



## AUTOMOTIVE DIESEL

**AUTOMOTIVE DIESEL** is a high quality, environmentally-friendly product developed to achieve good diesel engine performance with the lowest possible emissions.

**AUTOMOTIVE DIESEL** is compatible with all diesel fuels, engines and vehicle manufacturers.

Its low sulfur content, in accordance with the highest European environmental requirements, makes **AUTOMOTIVE DIESEL** a fuel that contributes to environmental protection.

## Properties.



Good characteristics at low temperature.



Improved cold starting performance.



Improved drivability.

## Quality level.

- ✓ It complies with the specifications defined by Spanish Royal Decree 1088/2010 of September 3, 2010.
- ✓ It is in accordance with Directive 2009/30/EC of April 23, 2009.
- ✓ It complies with European standard CEN EN 590.

## Health and Safety.

A Safety Data Sheet is available to those interested.

# PRODUCT SPECIFICATION

## AUTOMOTIVE DIESEL

CHARACTERISTICS	UNITS OF MEASUREMENT	TEST STANDARD	MIN.	MAX.
Density at 15 °C	Kg/m <sup>3</sup>	UNE EN ISO 12185	820	845
Color		ASTM D 1500		2
Sulfur	mg/kg	UNE EN ISO 20846		10
Cetane number		UNE EN ISO 5165	51.0	
Cetane index		UNE EN ISO 4264	46.0	
Distillation 65% recovered 80% recovered 95% recovered	°C	UNE EN ISO 3405	250	350 360
Kinematic Viscosity at 40 °C	mm <sup>2</sup> /s	UNE EN ISO 3104	2.0	4.5
Flash point	°C	UNE EN ISO 2719		Above 55
Cold filter plugging point Winter (October 1- March 31) Summer (April 1 - September 30)	°C	UNE EN 116		-10 0
Carbon residue (over 10% v/v final distillation)	% m/m	UNE EN ISO 10370		0.3
Water content	mg/kg	UNE EN ISO 12937		200
Total contamination (solid particles)	mg/kg	UNE EN ISO 12662		24
Ash content	% m/m	UNE EN ISO 6245		0.01
Copper Strip corrosion test (3h at 50 °C)	scale	UNE EN ISO 2160		Class 1
Oxidation stability	g/m <sup>3</sup> hours	UNE EN ISO 12205 UNE EN 15751	20	25
Lubricity, corrected wear scar diameter (wsd 1.4) at 60 °C	microns	UNE EN ISO 12156-1	-----	460
Polycyclic Aromatic Hydrocarbons	% m/m	UNE EN ISO 12916		8
FAME content	% v/v	UNE EN ISO 14078	-----	7
Clear and bright		ASTM D 4176		Complies
Additives and tracer agents	Regulated by Spanish Order PRE/1724/2002 of July 5, as amended by Spanish Order PRE/3493/2004 of October 22.			