

EN590 10ppm Diesel

Product Specification Sheet

Afri-Fuel-Consult (Pty) Ltd | April 2026 | For Buyer & Technical Reference

1. Product Overview

EN590 10ppm is the European standard specification for automotive diesel fuel, defined under EN 590:2013+A1:2017 as published by the European Committee for Standardisation (CEN). The "10ppm" designation refers to the maximum sulphur content of 10 milligrams per kilogram (mg/kg), making it an ultra-low sulphur diesel (ULSD) compliant with Euro 5 and Euro 6 emission standards.

AFC trades EN590 10ppm as its primary refined product offering, sourcing from approved origins and supplying to buyers across Sub-Saharan Africa, the Middle East, Asia, and South America. All product traded by AFC is subject to independent SGS or equivalent Q&Q inspection.

2. Technical Specification Table (EN 590:2013+A1:2017)

Parameter	Unit	Min	Max	Test Method
Sulphur Content	mg/kg	--	10	EN ISO 20846 / 20884
Cetane Number	--	51	--	EN ISO 5165
Cetane Index	--	46	--	EN ISO 4264
Density at 15 deg C	kg/m3	820	845	EN ISO 3675 / 12185
Polycyclic Aromatic HC	% m/m	--	8	EN 12916
Flash Point	deg C	55	--	EN ISO 2719
Carbon Residue (10% DR)	% m/m	--	0.30	EN ISO 10370
Ash Content	% m/m	--	0.01	EN ISO 6245
Water Content	mg/kg	--	200	EN ISO 12937
Total Contamination	mg/kg	--	24	EN 12662
Copper Strip Corrosion	Class	--	Class 1	EN ISO 2160
Lubricity (HFRR at 60C)	micron	--	460	EN ISO 12156-1
Viscosity at 40 deg C	mm2/s	2.00	4.50	EN ISO 3104
Distillation: 250 deg C	% v/v	--	65	EN ISO 3405
Distillation: 350 deg C	% v/v	85	--	EN ISO 3405
95% Recovery Temp	deg C	--	360	EN ISO 3405
Manganese Content	mg/L	--	2	EN 16576
Fatty Acid Methyl Ester	% v/v	--	7	EN 14078

3. Climate Grades and Cold Flow Properties

EN590 defines six temperate and five arctic climate grades based on Cold Filter Plugging Point (CFPP) and cloud point performance. For Sub-Saharan African buyers, temperate-grade product (Class F or Class B) is typically specified. Arctic grades are relevant for Northern European and high-altitude deliveries.

Grade	CFPP Max (deg C)	Applicable Climate
Class A	+5	Temperate (summer)
Class B	0	Temperate (mild winter)
Class C	-5	Temperate (moderate winter)
Class D	-10	Temperate (cold winter)
Class E	-15	Temperate (severe winter)
Class F	-20	Temperate (very severe winter)

4. Why EN590 10ppm Matters

Engine Compatibility

EN590 10ppm is compatible with all modern common-rail diesel engines, including Euro 5 and Euro 6 certified vehicles and heavy transport equipment.

Environmental Compliance

The 10ppm sulphur ceiling meets the requirements of the most stringent emission regimes globally, including EU, UK, and equivalent national standards in many African jurisdictions.

Equipment Longevity

Ultra-low sulphur content reduces wear on fuel injection systems, particulate filters, and catalytic converters, lowering long-term maintenance costs for fleet operators.

Regulatory Trend

African nations are progressively moving toward ULSD mandates. Buyers securing EN590 10ppm supply today are positioned ahead of tightening national standards.

5. Inspection and Certification

All EN590 10ppm product traded by AFC is subject to independent third-party Q&Q inspection. The following documentation is provided as standard:

- SGS (or equivalent) Certificate of Quality at Load Port
- Certificate of Quantity (Bill of Lading quantity)
- Certificate of Origin
- Product Data Sheet (from producing refinery)
- Material Safety Data Sheet (MSDS)
- Customs Export Declaration

All specifications are indicative and subject to final certificate of quality at load port. Afri-Fuel-Consult (Pty) Ltd | Reg. No. BW00003299246 | Gaborone, Botswana.