DIESEL ASTM D975 SPECIFICATIONS, GRADE 1-D & GRADE 2-D SPECIFICATIONS

This ATSM D975 DIESEL SPECIFICATIONS PDF file is available for download from the following link:

The details are already published on the main website ***https://EN590Diesel.com*** *and the* ***ASTM D975 Product Information & Specifications Page****.*

This specification file contains the ATSM D975 Diesel Product Specifications for the Grade 1-D S15 and Grade 2-D S15 variants, as well as additional specifications



Technical ASTM D975 Specifications & Grade Standards

1. ASTM D975 Diesel Technical Parameters (Grade 1-D S15 & Grade 2-D S15)

The following specification matrix details the mandatory physical and chemical property limits for commercial and industrial ULSD grades distributed across North American supply corridors:

Property	ASTM Test Method	Grade 1-D S15 (Winter / Lightweight)	Grade 2-D S15 (General / Heavy-Duty)
Flash Point (min)	ASTM D93	38°C (100°F) min	52°C (125.6°F) min
Water and Sediment (max)	ASTM D2709	0.05% by volume max	0.05% by volume max
Distillation Temperature (90% recovery)	ASTM D86	282°C (540°F) max	282°C – 338°C (540°F – 640°F)

Kinematic Viscosity at 40°C	ASTM D445	1.3 to 2.4 mm^2/s (cSt)	1.9 to 4.1 mm^2/s (cSt)
Sulfur Content (Ultra-Low Sulfur / ULSD)	ASTM D5453 / D2622	15 mg/kg (ppm) max	15 mg/kg (ppm) max
Cetane Number (min)	ASTM D613	40.0 min	40.0 min
Aromatic Content (max)	ASTM D1319	35% volume max	35% volume max
Ash Content (max)	ASTM D482	0.01% by mass max	0.01% by mass max
Copper Strip Corrosion (max)	ASTM D130	No. 3 max (3 hours at 50°C)	No. 3 max (3 hours at 50°C)

Lubricity (HFRR wear scar diameter at 60°C)	ASTM D6079	520 µm max	520 µm max

2. Biodiesel Blend Variants (B0, B5, and B7 Compatibility)

In alignment with modern environmental regulations and international export/import specifications bridging US ASTM standards and European market equivalents, our petroleum diesel can be supplied across various renewable biodiesel blend tiers. ASTM D975 permits up to 5% (B5) fatty acid methyl ester (FAME) biodiesel without requiring specific labeling, while higher blends follow specialized standards.

Blend Designation	FAME / Biodiesel Content	Applicable Governing Standard	Primary Application & Market Use
B0 Diesel	0% FAME (100% Petroleum Distillate)	ASTM D975 (Standard ULSD)	Long-term storage, emergency generators, aviation ground equipment, marine storage stability.
B5 Diesel	Up to 5% Biodiesel Blend	ASTM D975 (Standard Commercial)	Standard commercial highway transport, heavy-duty trucking, and general retail pumps across the USA.

B7 Diesel	Up to 7% Biodiesel Blend	ASTM D975 / EN 590 Cross-Compliance	Standard European automotive diesel grade (EN 590 equivalent export standard) and eco-compliant US regional fleets.

About ASTM D975 Diesel

ASTM D975 Diesel represents the gold standard for diesel fuel quality across the United States, governing everything from heavy-duty commercial transport and maritime operations to industrial power generation and agricultural machinery. As a premier primary-tier participant in the international energy sector, **EN590 Diesel**—operated by **The Vanilla+ Corporation** / **Indico Stratton Corporation Ltd** (Registration No. / UIC: **207775230**)—delivers uncompromised, direct-from-source ASTM D975 Ultra-Low Sulfur Diesel (ULSD) to high-volume commercial clients, wholesale distributors, and industrial end-users globally and across North American supply corridors.

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