bluesky

diesel exhaust fluid®

HIGH-PURITY DIESEL EXHAUST FLUID FOR SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEMS



SCR SYSTEM SUPPORT | **ISO 22241 COMPLIANT** | **SUPPORTS NOx REDUCTION** | **API CERTIFIED**

Blue Sky® Diesel Exhaust Fluid (DEF) is a high-purity 32.5% urea solution designed for diesel engines and equipment equipped with Selective Catalytic Reduction (SCR) systems. Manufactured to applicable ISO 22241 requirements, Blue Sky® DEF supports the SCR process that converts NOx emissions into nitrogen and water. Proper DEF quality, handling, storage, and dispensing help maintain SCR system performance

BENEFITS

- **High-Purity Composition:** 32.5% high-purity urea and 67.5% deionized water by mass.
- **API-CERTIFIED DEF:** Manufactured and quality-controlled to applicable ISO 22241 requirements.
- **Broad SCR Compatibility:** Designed for use in diesel SCR systems requiring ISO 22241-compliant DEF.
- **SCR System Performance:** Supports the SCR process that converts NOx emissions into nitrogen and water.
- **Safe Handling Profile:** Non-flammable and not classified as hazardous under applicable transportation regulations.



APPLICATION:

LOOK FOR THE BLUE CAP | DEF | DEF TANK MARKED WITH BLUE CAP



MEETS THE PERFORMANCE REQUIREMENTS OF:

- ISO 22241-1: Quality Requirements
- ISO 22241-2: Test Methods
- ISO 22241-3: Handling, Transportation & Storage
- Product Designation: AUS 32 / Diesel Exhaust Fluid

PERFECT FIT FOR APPLICATION WITH SCR:

- ON-HIGHWAY: Diesel trucks and buses
- LIGHT-DUTY: Diesel cars, SUVs and pickups
- AGRICULTURE: Diesel tractors and agricultural equipment
- CONSTRUCTION & MINING: Diesel off-highway equipment
- STATIONARY ENGINES: Generators & industrial engines

DEF STORAGE & HANDLING GUIDE

Constant Ambient Storage Temperature	Minimum Shelf Life*
≤10°C (50°F)	Up to 36 months
≤25°C (77°F)	Up to 18 months
≤30°C (86°F)	Up to 12 months
≤35°C (95°F)	Up to 6 months
>35°C (95°F)	Test before use
Protection Keep sealed and protected from direct sunlight and excessive heat.	

Shelf life is dependent on storage temperature and conditions. Refer to product packaging and applicable ISO 22241 guidance.

BLUE SKY® DIESEL EXHAUST FLUID
AVAILABLE PACKAGING
2.5 GAL | DRUM | TOTE | BULK

*Under proper conditions

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LOGISTICS & PACKAGING

API AMERICAN PETROLEUM INSTITUTE CERTIFIED DIESEL EXHAUST FLUID







	2.5 GAL BOX	55 GAL DRUM	275 GAL TOTE	330 GAL TOTE	BULK
Part Number	30002C-BS	30001	30003	30003-330	30005
UPC Code	860003367063	850081544005	---	864331000203	---
Weight / Case	22.75 lbs.	522.5 lbs.	2,635 lbs.	3,135 lbs.	Varies by Order Vol.
Package Dimensions	9.5" W × 9.5" L × 10" H	22.5" dia × 35.5" H	40" W × 48" L × 53" H	40" W × 48" L × 53" H	---
Case Per Pallet	80	20	14	14	---
Pallets Per Truck	22 Pallets / 1,750 CS	20	14	14	BULK
Pallet Size	40" W × 48" L × 45" H	40" W × 48" L × 45" H	40" W × 48" L × 45" H	40" W × 48" L × 45" H	---
Case / Rows / High	20 / 4 / 4	4	1	1	---
Truckload Weight*	41,140 lbs.	42,822 lbs.	44,068 lbs.	---	Varies by Order Vol.

*Estimated Weight

PRODUCT CHARACTERISTICS**

Analytical Control Parameter	Typical Product Characteristics
Urea Concentration (by Weight)	32.5%
Appearance / Visual Profile	Clear, colorless liquid
Odor Profile	Mild, slight ammonia-like odor
Specific Gravity (at 20°C)	1.09
Density (at 20 °C)	1.09 kg/L (equivalent to 9.09 lbs. / gal)
pH Value Range	9.0 to 10.0
Freezing Point	-11.5°C (11.3°F)
Boiling Point	104°C (219°F)
Refractive Index (at 20°C)	1.3814 to 1.3843

**Values are typical and may vary. Refer to the applicable Certificate of Analysis for batch-specific results.

MATERIAL COMPATIBILITY GUIDE ISO 22241-3±

MATERIAL COMPATIBILITY

- **Stainless Steel** (304, 316, and compatible grades) — Ideal for DEF storage, dispensing, and handling equipment. Offers strong corrosion resistance and long-term compatibility.
- **High-Density Polyethylene (HDPE)** — Approved for containers, tanks, and piping.
- **Polypropylene (PP)** — Suitable for tanks, fittings, and valves.
- **Polyvinylidene Fluoride (PVDF)** — Excellent resistance for long-term exposure.
- **Polytetrafluoroethylene (PTFE)** (Non-stick coatings and seals) — Highly inert and compatible.

MATERIALS TO AVOID

- **Carbon Steel / Mild Steel** — Prone to corrosion and DEF contamination.
- **Cast Iron** — Not resistant to urea solution exposure.
- **Copper / Brass / Bronze** — Can contaminate DEF and degrade system purity.
- **Zinc / Galvanized Steel** — Chemically reactive with DEF.
- **Aluminum** (non-approved grades) — Certain grades may corrode over time.
- **Natural Rubber / Latex** — Not suitable for prolonged DEF exposure.

±Always use materials specifically approved for DEF (AUS 32) service and refer to the equipment manufacturer's recommendations.

ADDITIONAL INFORMATION

Testing Requirements:
For a quick concentration check, use a DEF refractometer to verify urea concentration is approximately 32.5% by weight. A refractometer does not verify all ISO 22241 quality characteristics. For comprehensive quality verification, contamination analysis, and specification testing, use the BLUE SKY® Fluid Maintenance Program.

Storage Recommendations:
Store DEF in its original sealed packaging or in dedicated tanks constructed from DEF-compatible materials. Keep sealed and protected from direct sunlight and excessive heat. Refer to the DEF Storage & Handling Guide for storage temperature and shelf-life guidance. Always follow applicable ISO 22241 requirements and equipment manufacturer recommendations.

Safety and Environmental Guidance:
Dispose of DEF, contaminated materials, and packaging in accordance with applicable federal, state, provincial, and local requirements. Do not discharge DEF to soil, storm drains, or surface waters. Follow applicable wastewater authority requirements before discharge to a sanitary sewer.
For product quality concerns contact: QC@blueskydefna.com
SDS ID: 574762

FLUID MAINTENANCE PROGRAM & TECHNICAL SUPPORT

At BLUE SKY,® we don't just deliver high-performance DEF; we help protect SCR system performance and keep your fleet moving. Through our Fluid Maintenance Program, we provide advanced laboratory analysis to verify DEF quality, confirm proper urea concentration, identify contamination, and detect potential fluid-quality issues before they impact SCR performance.

BLUE SKY® can test and evaluate DEF quality and consistency to help determine whether the fluid remains within applicable specifications.

Partner with our technical support team to support SCR system performance, reliable aftertreatment operation, and confidence in every drop.

- VERIFY DEF QUALITY
- CONFIRM UREA CONCENTRATION
- IDENTIFY CONTAMINATION

Technical Support Backed by Laboratory Analysis

BLUE SKIES AHEAD™
PURE PERFORMANCE IN EVERY POUR™

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