

DEF

Diesel Exhaust Fluid



Features & Benefits

- API Certified
- Meets ISO 22241-1:2006
- Nontoxic, nonpolluting, nonhazardous and non-flammable solution
- Store in cool dry well-ventilated area out of direct sunlight

IRVING DEF transforms harmful nitrogen oxide (NO_x) emissions from diesel powered vehicles into harmless water vapor and nitrogen

IRVING DEF (Diesel Exhaust Fluid) is a 32.5% (AUS 32) Aqueous Urea Solution produced with high purity urea mixed with demineralized quality water designed to meet the specifications of ISO 22241-1:2006 for reducing the NO_x emissions of diesel engines.

IRVING DEF is produced to exceed the stringent regulations of the 2010 EPA (Environmental Protection Agency) Clean Air Act requirements, reducing harmful Nitrogen Oxide and Particulate Matter emissions by up to 90% while helping to increase fuel efficiency. When it comes to DEF, quality and purity are what really counts. SCR (Selective Catalytic Reduction) systems are the preferred technology to achieve EPA mandated reductions however DEF contaminants or impurities can cause this system to malfunction or fail. It is critically important to maintain the standards set forth by the ISO 22241-1 program. IRVING DEF is certified as a Diesel Exhaust Fluid by the American Petroleum Institute.

Typical Results

Test	Units	Typical	Min	Max
Urea Content	% (m/m)	32.5	31.8	33.2
Density at 20°C	kg/L	1.0899	1.087	1.093
Refractive Index at 20°C	-	1.3829	1.3814	1.3843
Alkalinity (as Ammonia)	% (m/m)	<0.1	-	0.2
Biuret	% (m/m)	0.20	-	0.3
Aldehydes	mg/kg	<0.5	-	5
Insoluble matter	mg/kg	<0.1	-	20
Phosphates	mg/kg	<0.05	-	0.5
Calcium	mg/kg	<0.1	-	0.5
Iron	mg/kg	<0.1	-	0.5
Copper	mg/kg	<0.1	-	0.2
Zinc	mg/kg	<0.1	-	0.2
Chromium	mg/kg	<0.1	-	0.2
Nickel	mg/kg	<0.1	-	0.2
Aluminum	mg/kg	<0.1	-	0.5
Magnesium	mg/kg	<0.1	-	0.5
Sodium	mg/kg	<0.1	-	0.5
Potassium	mg/kg	<0.1	-	0.5
Identity (FTIR)		Identical to reference	-	-

Sizes & Order Codes

3.78L/1 US gal F0102526	9.46L/2.5 US gal F0102510	208L/54.9 US gal F0102550	1250L/330 US gal F0102501	Bulk B0101801
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Blending & Packaging

www.irvingblend.com
1.800.574.5823

Supporting data available to demonstrate appropriate performance.
Check with your Sales Representative for latest product approvals.

Please note, these are typical performance indicators and can change without notice.
This data sheet supersedes any previous version prior to 5/24/2018