



“Give some bite to your engine!”

Cobra DEF Diesel Exhaust Fluid

Features and Benefits

- API Certified
- Meets ISO 22241-1:2019 quality standard
- Nontoxic, nonpolluting, nonhazardous and non-flammable solution
- Reduces harmful emissions by up to 90%
- Increases fuel efficiency

Cobra DEF is a 32.5% aqueous urea solution, AUS 32, a manufactured product of technically pure urea mixed with deionized water designed to meet the specifications of ISO 22241-1:2019 for NOx abatement technologies.

Cobra DEF is certified as a Diesel Exhaust Fluid by the American Petroleum Institute.

Cobra DEF transforms harmful nitrogen oxide emissions from diesel powered vehicles into harmless water vapor and nitrogen.

Cobra DEF is contained in a separate tank and sprayed from the SCR (Selective Catalytic Reduction) systems into the exhaust gases.

Typical Results

TEST METHOD	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	-	1.3830	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	<0.09	-	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	-	-



Shelf life as a Function of Temperature

Constant Ambient Storage Temperature (°C)	Minimum Shelf Life (Months)
≤10	36
≤25	18
≤30 ^a	12
≤35	6
>35	Significant loss of shelf life: check every batch before use

^a To Prevent decomposition of AUS 32, prolonged transportation or storage above 30 °C should be avoided.

Never store Cobra DEF in direct sunlight.

Sizes and Order Codes

SIZE	Cobra DEF
9.46 L / 2.5 US Gal	FBB0011610

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 datasheet supersedes any previous version prior to May 3, 2022.

[www.Irvingoil.com/en-CA/blending-packaging/cobra](http://www. Irvingoil.com/en-CA/blending-packaging/cobra) for more information