



United Fertilizer Chemical Co.,Ltd.



LEADING PRODUCER & SUPPLIER OF DIESEL EXHAUST FLUID GRADE UREA PRILL

Pure DEF Grade Urea contains approximately 46% nitrogen by volume, is non-toxic, and pH balanced when dissolved in water. Our pure DEF Grade Urea is readily available in a prilled and non-treated form, ready to be carefully blended into aqueous urea solution of 32.5% high purity urea and 67.5% deionized water.



• Shipping Reliability

United Fertilizer is committed to delivering every shipment on time. Our overseas team has the experience to ship & pack your product to meet your needs. Orders are always packaged in a controlled, clean, dry environment.

• Comprehensive Service Provider

We are equipped to service all of our clients. We can handle your logistical needs anywhere in the world, from our factory to your door.

• Local Services

United Fertilizer is conveniently headquartered in Irvine California. We offer warehousing in Los Angeles, close to major ports and rail ramps.

United Fertilizer Chemical Co.,Ltd

Address: 2192 Dupont Dr Ste 109 Irvine
CA 92612

Tel: 1-949-333-1485/1487 1-949-336-6262

Fax: 1-949-825-6093

www.unitedfertilizer.com

Email: sales@unitedfertilizer.com



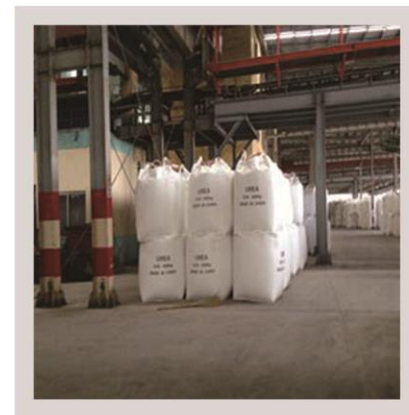
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Diesel Exhaust Fluid is a solution of deionized water and high grade urea that, in combination with a selective catalytic reduction (SCR) system, enables diesel vehicles to comply with stricter emission standards put for by the EPA. It is very important for United Fertilizer to produce the best quality of diesel exhaust fluid grade urea to insure that the SCR systems are protected. United Fertilizer tests every shipment to ensure that our product meets the International Organization for Standardization (ISO)22241 requirements.

Available Packing ~

- **1000kg bag**
- **50kg bag**
- **25kg bag**
- **50lb bag**



Amalgatech LLC
2965 West Osborn
Phoenix, AZ 85017
Phone: 602-252-0280 Fax: 602-252-0282 E-mail info@amalgatech.com

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Contact: Company: Address: City, ST, Zip E-Mail Phone / Fax	Stacey Ellis United Fertilizer Chemical Co. 2192 Dupont Drive Suite 109 Irvine, CA 92612 Sales@unitedfertilizer.com (949)333-1485 / (949) 825-6093	Sample ID Batch # Date sampled Date Received Date Promised Amalgatech ID Report Date	Dry Urea sample Ernest F Mariani Co. 9/14/2015 9/17/2015 9/22/2015 1509195 9/17/2015
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Urea Prill Certificate of Analysis

Characteristics	Unit	Test Methods	ISO Limits as Prill		Results
			min.	max.	
Urea content	% (m/m)	ISO 22241-2 Annex A ISO 22241-2 Annex B	97.8	-	99.9
Biuret	%m/m	ISO 22241-2 Annex E	-	0.9	0.82
Aldehydes	mg/kg	ISO 22241-2 Annex F	-	15.4	14.29
Insoluble matter	mg/kg	ISO 22241-2 Annex G	-	61.5	23.63
Phosphate (PO ₄)	mg/kg	ISO 22241-2 Annex H	-	1.5	0.106
Calcium	mg/kg	ISO 22241-2 Annex I	-	1.5	0.00
Iron	mg/kg	ISO 22241-2 Annex I	-	1.5	0.00
Copper	mg/kg	ISO 22241-2 Annex I	-	0.6	0.00
Zinc	mg/kg	ISO 22241-2 Annex I	-	0.6	0.00
Chromium	mg/kg	ISO 22241-2 Annex I	-	0.6	0.031
Nickel	mg/kg	ISO 22241-2 Annex I	-	0.6	0.00
Aluminum	mg/kg	ISO 22241-2 Annex I	-	1.5	0.062
Magnesium	mg/kg	ISO 22241-2 Annex I	-	1.5	0.00
Sodium	mg/kg	ISO 22241-2 Annex I	-	1.5	0.246
Potassium	mg/kg	ISO 22241-2 Annex I	-	1.5	0.462

Diesel Exhaust Fluid per ISO 22241¹

Characteristics	Unit	Test Methods	Limits		Acceptance Range ²		Results
			min.	max.	min.	max.	
Urea content	% (m/m)	ISO 22241-2 Annex A ISO 22241-2 Annex B	31.8	33.2	30.8	34.2	32.7
Density at 20°C	kg/m ³	ISO 3675 or ISO 12185	1087.0	1093.0	1086.5	1093.5	1090.5
Refractive index at 20°C	---	ISO 22241-2 Annex C	1.3814	1.3843	1.3804	1.3853	1.3834
Alkalinity as NH ₃	%m/m	ISO 22241-2 Annex D	---	0.2	---	0.24	0.01
Biuret	%m/m	ISO 22241-2 Annex E	---	0.3	---	0.34	0.267
Aldehydes	mg/kg	ISO 22241-2 Annex F	---	5.0	---	7.4	4.6
Insoluble matter	mg/kg	ISO 22241-2 Annex G	---	20	---	27.6	7.7
Phosphate (PO ₄)	mg/kg	ISO 22241-2 Annex H	---	0.5	---	0.53	0.03
Calcium	mg/kg	ISO 22241-2 Annex I	---	0.5	---	0.55	0.00
Iron	mg/kg	ISO 22241-2 Annex I	---	0.5	---	0.85	0.00
Copper	mg/kg	ISO 22241-2 Annex I	---	0.2	---	0.24	0.00
Zinc	mg/kg	ISO 22241-2 Annex I	---	0.2	---	0.26	0.00
Chromium	mg/kg	ISO 22241-2 Annex I	---	0.2	---	0.26	0.01
Nickel	mg/kg	ISO 22241-2 Annex I	---	0.2	---	0.26	0.00
Aluminum	mg/kg	ISO 22241-2 Annex I	---	0.5	---	0.85	0.02
Magnesium	mg/kg	ISO 22241-2 Annex I	---	0.5	---	0.85	0.00
Sodium	mg/kg	ISO 22241-2 Annex I	---	0.5	---	0.75	0.08
Potassium	mg/kg	ISO 22241-2 Annex I	---	0.5	---	0.75	0.15
Identity	---	ISO 22241-2 Annex J	Identical to reference		Identical to reference		Identical to Reference

² Acceptance Range = Limit adjusted for reproducibility per Annex B