



**PRODUCT: GREENOX® (ADBLUE®) (ADBL) REVISION: 5 DATED: 20/05/15 PAGE 1 OF 6**

**PRODUCT SPECIFICATION**

Product Name	Greenox® (AdBlue®)
Alternative Name	Automotive urea solution 32, AUS 32, diesel exhaust fluid, DEF
Specification Reference	ADBL/5 (05/15/0082001)

**SALES SPECIFICATION**

Characteristics	Unit	Min	Max	Typical Value
Urea Content	Weight %	31.8	33.2	32.5
Density	g/cm <sup>3</sup>	1.087	1.093	1.0895
Refractive Index at 20°C		1.3814	1.3843	1.3829
Alkalinity as NH <sup>3</sup>	%	-	0.2	
Biuret	%	-	0.3	
Aldehydes	mg/kg	-	5	
Insolubles	mg/kg	-	20	
Phosphate (PO <sub>4</sub> )	mg/kg	-	0.5	
Calcium	mg/kg	-	0.5	
Iron	mg/kg	-	0.5	
Copper	mg/kg	-	0.2	
Zinc	mg/kg	-	0.2	
Chromium	mg/kg	-	0.2	
Nickel	mg/kg	-	0.2	
Aluminium	mg/kg	-	0.5	
Magnesium	mg/kg	-	0.5	
Sodium	mg/kg	-	0.5	
Potassium	mg/kg	-	0.5	

Greenox® conforms to DIN 70070 and ISO 22241 and is supplied ready to use.

**Storage**

To maintain the product quality it is recommended that AdBlue® is stored below 25°C and out of direct sunlight. Do not store or allow product to come into contact with mild steel, aluminium, brass, copper or alloys. These will damage the catalyst system.

**Shelf Life** (in accordance with ISO 22241-3)

**Constant ambient storage temperature (°C) Minimum shelf life (months)**

≤10	36
≤25	18
≤30	12
≤35	6
≥35	Significant decomposition test before use

**Freezing**

Adblue® will begin to freeze at -11°C; this does not affect the product quality or strength. The liquid phase of a partially frozen solution will still be at the required concentration and may continue to be used. The remaining frozen portion may be used after allowing to thaw

**NOTES**

**Exclusion of Liability**

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**Health and Safety**

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.