

# Air1 AdBlue®

*Emissions Fluid (Urea Solution 32.5%)*



**PETRONAS**

Engen is a  
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## Description

Engen Petroleum supply AdBlue under the trade of Air1. The product is supplied in accordance with the quality requirements/test methods of ISO 22241 and the supply chain principles of CEFIC AUS 32, Quality Assurance Guidance Document for Automotive Grade Urea, version 2.0

SPECIFICATION	METHODS	UNITS	MINIMUM	MAXIMUM
Urea content	-	% by weight	31,8	33,2
Density at 20 °C	ASTM D445	g/cm3	1,087	1,093
Refracting index at 20 °C	-	-	1,3814	1,3843
Alkalinity as NH3	-	%	-	0.2
Biuret	-	%	-	0,3
Aldehyde 5mg/kg	-	mg/kg	-	5
Insolubles 20mg/kg	-	mg/kg	-	20
Phosphate (P04)	-	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



With us you are Number One

**ENGEN**

## Typical Physical Characteristics

AIR1 ADBLUE®			
PARAMETERS	METHODS	UNITS	TYPICAL VALUES
Physical state	-	-	Liquid
Colour	Visual	-	Colourless/White
Odour @ 100°C	-	-	Amonia (slight)
Freezing Point	ASTM D3321	°C	-11°C to -15°C
Boiling Point of solution (°C) Decomposition Temperature	ASTM D1120	°C	100°C

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to Engen's specification, variations in these characteristics may occur.

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STORAGE TEMPERATURE °C	MINIMUM SHELF LIFE (MONTH)
≤ 10	36
≤ 25	18
≤ 30	12

Classified as non-hazardous for supply or transport. The product is stable under normal recommended storage and handling conditions. Analytical Methods: All products are analysed in accordance with the procedures as defined by ISO 22241, Part 2.

## Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil, or water. For further detail regarding storage, safe handling, and disposal of product, please refers to Product SDS. Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility shall be taken by either Engen or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortuous action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information. All products, services and information supplied are under our standard conditions of sale. Please consult with any of our local representatives in the event you require any further information.

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