

TECHNICAL PRODUCT SHEET

AUS 40



DESCRIPTION

Aqueous Urea Solution (AUS) 40 is a high-purity, ready-to-use urea solution formulated with 40% urea dissolved in purified water, engineered specifically for marine engines equipped with Selective Catalytic Reduction (SCR) systems. This maritime-grade reagent supports the effective reduction of nitrogen oxide (NO_x) emissions, enabling compliance with stringent marine emission regulations. AUS 40 is manufactured under controlled conditions to ensure exceptional purity, stability, and compatibility with SCR dosing equipment, minimizing the risk of deposits, corrosion or catalyst impairment. Its consistent quality ensures reliable performance in demanding marine operating environments.

APPLICATIONS

AUS 40 is formulated to support optimal performance and extended service life of Selective Catalytic Reduction (SCR) systems in marine applications. By providing a consistent and high-purity urea concentration, it enables efficient NO_x reduction, ensuring reliable catalyst function under demanding operating conditions. The solution is used in marine vessels equipped with SCR technology to achieve significant reductions in nitrogen oxide emissions, facilitating compliance with international maritime environmental regulations such as IMO Tier III standards. Its stable composition and controlled quality contribute to cleaner exhaust emissions and more sustainable marine operations.

SPECIFICATIONS

ISO 18611

PROPERTIES

AUS 40 is a high-purity urea solution engineered to deliver reliable performance in marine Selective Catalytic Reduction (SCR) systems. Its controlled composition supports efficient reduction of nitrogen oxide (NO_x) emissions, ensuring compliance with stringent maritime environmental standards. The stable, contaminant-free formulation helps maintain optimal catalyst activity, contributing to improved operational efficiency and extended service life of SCR components under demanding marine conditions.



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PHYSICAL-CHEMICAL CHARACTERISTICS

AUS 40	METHOD	
Density at 20°C, g/cm ³	ISO 12185	1.110
Refractive index at 20°C	ISO 18611-2, Annex C	1.396
Alkalinity (NH ₃), %wt	ISO 18611-2, Annex D	<0.5
Urea content, %wt	ISO 18611-2, Annex B ISO 18611-2, Annex C	40
Buret, %wt	ISO 18611-2, Annex E	<0.8
Insolubles, mg/kg	ISO 18611-2, Annex G	<50
Aldehydes, mg/kg	ISO 18611-2, Annex F	<100
Phosphates (PO ₄), mg/kg	ISO 18611-2, Annex I	<1.0
Calcium, mg/kg	ISO 18611-2, Annex I	<1.0
Iron, mg/kg	ISO 18611-2, Annex I	<1.0
Magnesium, mg/kg	ISO 18611-2, Annex I	<1.0
Sodium, mg/kg	ISO 18611-2, Annex I	<1.0
Potassium, mg/kg	ISO 18611-2, Annex I	<1.0
Appearance	Visual	Colorless liquid

The abovementioned characteristics represent mean values.

STORAGE

- Store AUS 40 away from sunlight
- AUS 40 can be stored for 18 months from the date of manufacture in closed containers and at storage temperatures below 25°C
- Prolonged storage above 25 °C can reduce the shelf life. However, temporary exposure to higher temperatures does not necessarily influence the
- quality of AUS 40
- To prevent solidification of AUS 40, it is advised to avoid storage below 5 °C, as solidification may commence at temperatures below 1 °C. Note that solidified AUS 40 has larger volume than the liquid
- Keep the equipment clean, free from dust and dirt
- Classified as non-hazardous: in case of contact with skin or clothing, rinsing with water is recommended
- May be corrosive to certain metals: in case of spillage, rinse with water
- Do not use equipment (containers, etc.) used for other liquids for refilling or storing AUS 40



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HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

