



# Shell Rotella® DEF

## Diesel Exhaust Fluid

Shell Rotella® DEF is a high purity diesel exhaust fluid meeting the stringent requirements of ISO 22241 (AUS 32) as well as all OEM requirements for diesel exhaust fluid used in diesel trucks, passenger cars, pickups, SUVs, tractors, and construction equipment with selective catalytic reduction (SCR) emission systems for NOx reduction. Shell Rotella® DEF is API registered to verify for customers the performance and quality of the product.

### DESIGNED TO MEET CHALLENGES

#### Performance, Features & Benefits

- Shell Rotella® DEF meets all ISO 22241 for aqueous urea solutions (AUS 32) used in diesel engine SCR emission systems.
- Shell Rotella® DEF is API registered certifying meeting OEM requirements.
- The high purity and low ash content of Shell Rotella® DEF helps to protect the SCR system.
- Shell Rotella® DEF is provided in convenient packaging with a pour spout included and may be used in all diesel SCR emission systems equipped with diesel exhaust fluid injection for NOx reduction.

#### Main Applications

Shell Rotella® DEF is for use in all diesel emission systems requiring ISO 22241 (AUS 32) or API DEF certification. Used in conjunction with the SCR catalyst for removal of NOx emissions in some passenger cars as early as model year 2008, light and commercial trucks from 2010, and off-road and stationary diesel engines from 2011 where required for proper vehicle operation.

#### Specifications, Approvals & Recommendations

- ISO 22241 (AUS 32)
- API DEF Certification/Registration

For confirmation of equipment requiring DEF, please consult your local Shell Technical Helpdesk.

#### Typical Physical Characteristics

Properties		Method	Shell Rotella DEF
Urea Content	%(m/m)	ISO 22241-2 Annex B or C	31.8-33.2
Refractive Index	@20°C	ISO 22241-2 Annex C	1.3829
Density	@20°C kg/m <sup>3</sup>	ISO 3675 or ISO 12185	1087.0-1093.0

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

#### Health, Safety & Environment

##### • Health and Safety

Shell Rotella® DEF is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

##### • Protect the Environment

Take unused fluid to an authorised collection point. Do not discharge into drains, soil or water.

## Additional Information

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative.