

Diesel Exhaust Fluid

There is a risk of serious failure if contamination such as dirt, dust or water (hereinafter collectively called "foreign matter") is mixed in with DEF/AdBlue® (hereinafter called "DEF"). When refilling and storing DEF, note the following points and perform thorough management.

Q What precautions should be taken when DEF refilling?

A If foreign matter enters the DEF tank, it may cause a failure in the Urea SCR system. Keep the following points in mind.

***The engine power will be limited in stages in the case of any failure of the Urea SCR system. In this situation, the machine can't be operated normally.**

- Foreign matter may be attached to a refilling gun or funnel. Use a clean cloth to wipe off foreign matter that may be attached to the nozzles, and wash the inner surface of the funnel with DEF before use.
- Please inquire on the proper way to recycle or dispose of waste including DEF from your local environmental or recycling center, or from your authorized dealer.



- When using a storage tank, clean the area around the pump description port, and be careful so that foreign matter doesn't enter the tank.



- Wipe the tank cap and surrounding area with clean cloth before opening it.
- Be careful not to have foreign matter attach inside the cap when detaching it.
- There is a risk that foreign matter enters the tank when the tank cap is not tightened properly. If white crystals are observed on or around the cap, clean up them with a clean cloth.



- When shifting DEF to containers and carrying it, use the container specialized in use for DEF, and don't use general container or that is used for other purposes. Moreover, make sure to check the container inside is not dirty but clean, and be careful that foreign matter doesn't get into it.

Q

What precautions should be taken when DEF storing?

A

Keep the following six points in mind when storing.

- Keep DEF in a sealed container and store at non dusty location so that foreign matter doesn't get into it.
- Be careful that foreign matter doesn't be attached to inner surface of refilling gun/funnel/nozzle.
- Store at temperature between -10 and 40°C in a well-ventilated location that isn't exposed to direct sunlight.
 - *DEF freezes at -11°C or lower, but there is no problem in quality when thawed.
 - *DEF may deteriorate significantly when stored at 40°C or higher.
- DEF has the potential to corrode iron, copper, brass, aluminium, and PET plastic products. Only use dedicated polyethylene or stainless steel storage containers.
- Keep in a sealed container so that DEF doesn't evaporate.
- Prohibit DEF from storing in same place with dangerous materials such as gasoline or diesel fuel.

Q

Which DEF can be used?

A

Use DEF (equivalent to AdBlue®) which conform to the following standards.

- JIS (Japanese Industrial Standards): AUS 32 JIS K2247
 - ISO (International Organization for Standardization): AUS 32 ISO 22241
 - Those items certified by the API (American Petroleum Institute)
- * DEF is a clear, colorless liquid. If DEF is colored, do not use, as there is a risk of deterioration or adulteration.

Q

How should these cases be handled?

A

- **If DEF comes into contact with the skin, wash the area with water. If it enters the eyes, flush with large amount of water for 15 minutes or longer and get a medical attention.**
- **If DEF is swallowed by mistake, wash down it with drinking several cups of water. If discomfort continues to be felt or much of DEF is swallowed, get promptly a medical attention.**
- **When accidentally filling DEF tank with anything other than DEF (gasoline, diesel fuel, etc.), contact your nearest sales office, as it may cause a failure of the SCR system and/or fire.**