

## CX DEF

Diesel Exhaust Fluid

### General Description

CX DEF is a Diesel Exhaust Fluid (DEF) for diesel vehicles equipped with SCR technology. Made up of 67.5% deionized water and 32.5% high-purity urea, it meets the requirements of the IS 22241 standards. It plays an essential role in combating pollution from automobile emissions, by converting oxides of Nitrogen (NOx) to harmless Nitrogen gas (N<sub>2</sub>) meeting emission regulations.

CX DEF forms an important component of the Selective Catalytic Reduction (SCR) technology and is stable under normal physical conditions. Consumption rates of CX DEF vary but usually around 2 – 4% of diesel consumed. Off-road equipment consumption rates are 5 – 10%.

### Key Features & Benefits

- Non-toxic and biodegradable
- Stable mixture of urea in aqueous medium under normal temperature and pressure
- Breaks down into ammonia which selectively converts oxides of nitrogen to harmless mixture of nitrogen and water
- Cost effective measure to reduce pollutant level in effluent gas streams from most vehicles
- With a freezing point of -11°C, it acts as an antifreeze under extreme climatic conditions
- Provides up to 20% gain in fuel efficiency while reducing harmful NOx emissions

### Physicochemical Data

Attributes	Typical Value
Form	Clear Liquid
Appearance	Colourless
Odour	Pungent Ammoniacal
Urea Content	32.5% (w/w)
DM Water	67.5% (w/w)
pH (Neat)	9.0 – 10.0
Specific Gravity	1.090 ± 0.03
Relative Vapour Density	0.6 (Water=1)
Boiling Point	> 100°C
Freezing Point	(-) 11°C
Solubility	Completely soluble in water

The above data has been obtained in laboratory tests and are typical of the product. They do not however constitute sales specifications and should not be regarded as such.



### Contact Information

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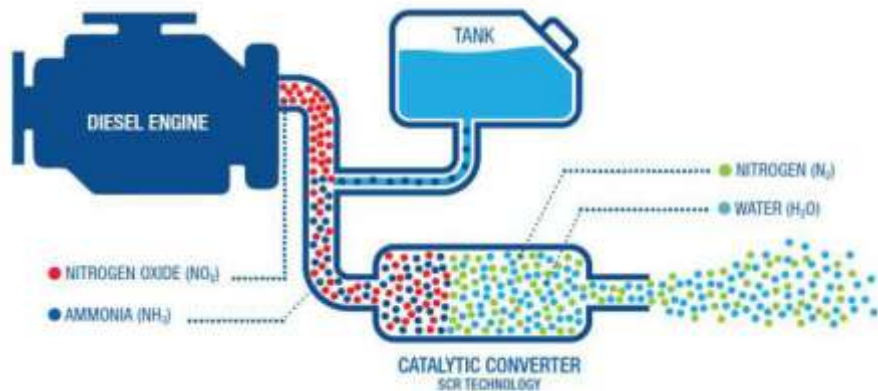
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OHSAS 18001, GMP Certified

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### Dosage & Method of Application

Most engines run at a dose rate of 2% of diesel fuel consumed, but the dose rate ranges from 1 – 3%. *CX DEF dose rate varies slightly amongst OEMs.*



### Incompatibility

Avoid contact with strong oxidizing agents such as chlorinated bleach, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen or permanganates. Contact can generate heat, fires, explosions and release toxic fumes. In addition, urea reacts with calcium hypochlorite or sodium hypochlorite to form explosive trichloramines.

### Handling Measures

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not wear contaminated clothing or shoes.

### Storage

Keep container(s) tightly closed. Do NOT allow product to come in contact with extreme heat and flame or with strong oxidizing agents. Use and store this material in cool dry well-ventilated areas. Keep out of reach of children. *Kindly refer label and SDS for details.*

### Packaging

Available in 5/20/50/210L.