

ClearNOx[®] is a ready-to-use solution comprising 32.5% high purity urea that is recommended for use in Selective Catalytic Reduction (SCR) systems to reduce nitrogen oxide (NOx) emissions.

USES

- **ClearNOx[®]** is used in the exhaust gas aftertreatment process in vehicles equipped with a Selective Catalytic Reduction (SCR) system. This urea-based solution helps reduce the nitrogen oxide (NOx) emissions produced by diesel engines;
- **ClearNOx[®]** converts NOx to nitrogen (N₂) and water vapor (H₂O), two non-polluting molecules already present in the atmosphere;
- **ClearNOx[®]** can be used in all SCR-equipped vehicles;
- **ClearNOx[®]** is especially recommended for vehicles that make frequent stops or drive with low loads;
- **ClearNOx[®]** is a preventive solution that keeps crystals from forming in the SCR system. Using it continuously keeps SCR systems working efficiently, thanks to better dispersion of urea particles. This solution can have an impact on particle emissions at the outlet of the exhaust;
- **The use of ClearNOx[®] is compatible with vehicles subject to the Euro VI standard up to and including step D. As a reminder, the standard is made up of technical requirements that must be subject to a conformity check by the manufacturer.**
- **ClearNOx[®] is not a fuel additive. It should not be blended or added into the fuel tank;**
- **ClearNOx[®] consumption depends on the engine design and the operating cycle, but generally varies between 3 and 8% of Diesel consumption.**

SPECIFICATIONS

- **ClearNOx[®]** complies with the physical and chemical characteristics of the international ISO 22241-1 and DIN 70070 standards, as well as with European Chemical Industry Council (CEFIC) regulations, but does not meet the definition in ISO 22241-1 section 3.1 due to the presence of additives. **ClearNOx[®]** is also certified by the American Petroleum Institute (API).



BENEFITS

- **Inhibits the formation of deposits** in the SCR system, thereby reducing the risk of the system plugging up;
- **Improves product spray**;
- **Ensures optimal vehicle operation**;
- **Is miscible with AdBlue[®]**. However, ClearNOx[®] loses its specific properties if diluted.

CHARACTERISTICS

ClearNOx [®]		Min.	Max.
Urea content	% (m/m)	31.8	33.2
Color		Clear and colorless	
Density at 20°C	g/cm ³	1.087	1.093
pH		9	10
Refractive index		1.3814	1.3843
Ammonia (NH ₃) content	% (m/m)		0.2
Biuret	% (m/m)		0.3
Aldehydes	mg/kg		5
Insoluble matter	mg/kg		20
Phosphate content	mg/kg		0.5
Calcium content	mg/kg		0.5
Iron content	mg/kg		0.5
Copper content	mg/kg		0.2
Zinc content	mg/kg		0.2
Chrome content	mg/kg		0.2
Nickel content	mg/kg		0.2
Aluminum content	mg/kg		0.5
Magnesium content	mg/kg		0.5
Sodium content	mg/kg		0.5
Potassium content	mg/kg		0.5
Crystallization temperature	°C		-11
Dissolution temperature	°C		-6
Decomposition temperature	°C		> 60°

STORAGE

- **ClearNOx[®] should be stored at between -5°C and 30°C** to avoid crystallization or hydrolysis of the product;
- Storage tanks, containers, drums, cans and other materials that come into contact with the product should be made of **stainless steel or plastic in accordance with ISO 22241**;
- Materials such as copper, copper alloys or galvanized metals are not advised;
- The product can be stored at the recommended temperature for 12 months in its original, unopened packaging, away from direct sunlight;
- **ClearNOx[®]** is classified as non-hazardous with regard to the regulation on hazardous substances.