

EFFINOX

Additive AdBlue®

GreenChem

Reduces NOx and prevents crystallization in SCR systems

A Reminder of what ADBLUE® is?

AdBlue® is a colourless and pure aqueous solution composed of demineralised water (67.5%) and urea (32.5%). Soluble in water, it is a biodegradable product that is listed as non-polluting. The main active ingredient of AdBlue is ammonia, produced chemically by hydrolysis from "automotive urea", an essential raw material in the production of AdBlue.

AdBlue is used by diesel vehicles equipped with SCR technology (Selective Catalytic Reduction). The product is injected into the catalyst of the SCR system, where it triggers a chemical reaction with the ammonia. This chemical reaction enables the conversion of 85% of pollutants (nitrogen oxides commonly referred to as NOx) into water vapour (H₂O) and to harmless nitrogen (N₂).

What is EFFINOX?

Like AdBlue®, EFFINOX is a urea solution (32.5%) with an additive reagent, used in diesel vehicles to reduce harmful emissions (NOx) being released into the atmosphere. Additionally, it also prevents deposit formation in vehicle's SCR systems with low load running engines. It conforms to the purity standards of the ISO 22241 for AdBlue®.

Why is EFFINOX needed?

When an SCR equipped vehicle is driven everyday in cold weather with low loads and travelling at low speeds with multiple stops/starts, the low exhaust gas temperature remains insufficient for the AdBlue reaction to be complete. This results in formation of cyanuric acid crystals which blocks the SCR system resulting in higher fuel consumption, additional maintenance or complete immobilization of the vehicle.

With EFFINOX, the surface tension of droplets is reduced and the injector inside of the SCR system is able to spray the very same amount of liquid in significantly higher amount of droplets leading to a complete reaction at this lower temperature, avoiding the crystallization of the SCR system.



White crystal-like urea deposits clogs the exhaust



Use of Effinox prevents crystal formation and keeps the SCR system running

Applications and Compatibility



Product benefits

- ▶ Like AdBlue®, it reduces harmful emissions coming out from diesel vehicles which pollutes our environment.
- ▶ Preserves the SCR system by avoiding crystallization (cyanuric acid crystals) at low temperatures.
- ▶ Helps to reduce over-consumption caused by a saturated exhaust system.

Storage conditions

CONSTANT STORAGE ENVIRONMENT TEMPERATURE	EXPIRATION IN MONTHS
≤10°C	36 months
≤25°C	18 months
≤30°C	12 months
≤35°C	6 months
>35°C	b*

*b – a significant shortening of the expiration time: before use each batch must be checked.

Storage Options



◀ 200L
EFFINOX Drum

1000L ▶
EFFINOX IBC

