

## **PIK KEMICAL**

**Chemical Technologies** 

**G/4** 

# NCLT

PROTECTION AGAINST CORROSION AND SCALES IN DIESEL ENGINE COOLING SYSTEMS

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#### DESCRIPTION

Liquid compound based on nitrites/borates with organic corrosion inhibitors, containing a colour indicator.

#### **APPLICATIONS**

Corrosion inhibitor treatment for cooling water system of diesel engines, compressors and central heating systems.

#### **ADVANTAGES**

- Protects all metal surfaces from corrosion.
- Deposits a microscopic protective film on exchange surfaces of the cooling system.
- The protective film stability is reinforced by an incorporated pH self buffering.
- Contains corrosion inhibitors designed to protect ferrous and non ferrous metals (except for aluminium see bulletins G/2, G/5 and G/7).
- Controls calcareous deposit formation.
- Contains a colour indicator that secures maintenance of correct concentration levels.
- Not chromed, this product does not cause pollution.
- The control test checks Sodium Nitrite (NaNO<sub>2</sub>) levels.

#### **IMPORTANT NOTE**

The product contains a pink color indicator to see its presence in water even without test analysis. When the pink color of treatment water of the system turns to colorless, pH has fallen below 8.3 or there is no more NCLT in the system. In this case the Sodium Nitrite Test is recommended in order to restore normal treatment conditions of the treatment.

#### INSTRUCTIONS

Please refer to dosage table to determine quantity

#### **INFORMATION**

Anodes (magnesium and zinc) and galvanized coverings contained in the cooling system must be removed before treating the system with NCLT These materials are not

essential to water cooling systems and may cause deposits. NCLT may be added

directly in the compensation tank or by an in line metering system (see bulletin U/4).

Cooling systems strongly polluted by oil, fuel,

grease or scales, must be cleaned before initiating treatment with NCLT using

SEACLEAN for degreasing or DESCALING LIQUID to descale from limestone deposits.

We recommend using distilled or low chloride content water (max 100 ppm).

The start up quantity for a circuit is 10 liters per each circulating water ton. For maintenance analyse periodically and apply the following table.

### MAINTENANCE LEVELS FOR CIRCUITS TREATED WITH NCLT

Sodium nitrite (NaNO2	2): from 2300 to 3000 PPM
Nitrite (NO <sub>2</sub> ):	from 1500 to 2000 PPM
Chlorides:	100 PPM max
pH:	from 8,5 to 9,5

 $NaNO_2 : 1.5 = NO_2$  $NO_2 \times 1.5 = NaNO_2$ 





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### NCLT DOSAGE TABLE

INITIAL DOSAGE 10 lt/ton								
Sodium Nitrite NaNO <sub>2</sub>	0	600	750	1200	1650	2250	3000	
Nitrite NO <sub>2</sub>	0	400	500	800	1100	1500	2000	
REDCOOLING D.W.T. It/ton	10	8	6	4	21	0	Suspend dosage	

Note: multyply Nitrite ppm (NO<sub>2</sub>) by 1.5 to obtain Sodium Nitrite ppm (NaNO<sub>2</sub>) i.e. 2000 ppm of Nitrite is corresponding to 3000 ppm of Sodium Nitrite.

#### Use KIT PAK 1 to control Sodium Nitrite (NaNO<sub>2</sub>), Chlorine and pH level.

#### PRECAUTIONS

Use gloves and protective glasses.

In case of contact with the eyes or the skin, rinse thoroughly with fresh running water for 15 min. If problem continues, seek medical assistance.

#### PACKAGING

Non returnable - Plastic pails 25 liters