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TECHNICAL DATA SHEET

NKC-990

SCALE INHIBITOR AND DISPERSANT

DESCRIPTION

NKC-990 is a highly carboxyl-functional polymer. It provides good calcium carbonate and calcium sulfate control in industrial cooling water systems under general water conditions. Owing to NKC-990 supply cost effective and it can make a good synergistic effective performance when NKC-990 combines with organo-phosphonates, polyphosphates and Zinc salts. Absolutely NKC-990 is widely to use in cooling water system and other process applications.

ADVANTAGES

- *Threshold effect to inhibit CaCO_3 , CaSO_4 scale under conditions of maximum temperature 50°C and 600ppm Ca^{++} as CaCO_3 .
- *Crystal distortion effect to disperse CaCO_3 , CaSO_4 .
- *Dispersing effect to disperse the negative charge on the sludge particles, such as silt & mud and iron oxide etc.,
- *Compatible with other commonly used water treatment chemicals.
- *Improves corrosion control in alkaline systems by maintaining clean surfaces.
- *Resistant to chlorine and compatible with most microbiological control programs.
- *Good thermal and hydrolytic stability($>300^\circ\text{C}$)
- *Cost effective

FEED REQUIREMENTS

NKC-990 should be fed continuously to the cooling system at a point of turbulent flow. It can be fed directly from the drum or diluted with water.

Normally the dosage rate of NKC-990 is 10~25ppm in cooling water. Specific dosage required will depend on the type of cooling system, temperature, velocity and water characteristics.

SPECIFICATIONS

Appearance.....colorless to pale yellow liquid
Specific gravity(25°C)..... 1.1 ± 0.05
pH(1% solution).....2~5

PACKAGING

Available in 55 gallon P.E drum , net weight 200kg. Also available in 5 gallon P.E drum, net weight 25kg.

STORAGE&HANDLING

Store in a cool, dry and ventilated area, away from fire and oxidizing materials.

Avoid ingestion and inhalation and all contact with skin and eyes. Protective clothing, goggles and pvc or rubber gloves should be worn. In case of contact with eyes, flush immediately with water for at least 15min and get medical attention. If any of the product has been swallowed, do not induce vomiting but give large quantities of milk or water if the person is conscious. Get medical attention immediately.

Recommendations given in this bulletin are based on tests believed to be reliable. However, the use of the product is beyond the control of N.K.C. and no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from misuse of the product as such, or combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.