

# K Nate NLGI 1

Multi-purpose calcium sulphonate grease

Protects against high loads, high temperatures, corrosion and water washout



- Ideal for winter use and centralised lubrication systems
- Exceptional performance under high pressure (4 ball weld load: 800kg)
- Remains in place at high temperatures
- Protects against oxidation, rust & corrosion
- Resists water washout

### PROBLEM SOLUTION

Grease is not water resistant

K NATE NLGI 1 gives superior performance and water resistance, making it an excellent maritime grease and ideal for use in humid environments

High operating temperatures

K NATE NLGI 1 provides effective lubrication at constant temperatures of - 30°C to +180 °C and intermittent +200 °C

Cold temperatures

K NATE NLGI 1 is ideal for use in winter conditions were a standard NLGI 2 grease is to hard to use with a grease gun, etc.

Heavy loads, premature wear on materials

K NATE NLGI 1 provides outstanding lubrication helping to extend bearing and equipment life under extreme pressures and other high wear conditions

Poor corrosion performance of existing products

K NATE NLGI 1 is based on Calcium Sulphonate – provides excellent corrosion protection for equipment and components

# K Nate NLGI 1

# Multi-purpose calcium sulphonate grease

ADDITIVES	BENEFITS	
Superior quality base oil	Superior quality. Highly refined base oil that is resistant to oxidation, hardening and to high temperatures for improved lubrication.	
Thickener	The calcium sulphonate offers superior resistance to water, even when immersed – heavier than water. Remains in place even under extreme pressure and at high temperatures.	
Cohesive / adhesive polymers, adhesive agents	The polymers make it possible for K NATE NLGI 1 to remain in place, even when subjected to extreme pressures. Prevents loss of grease, ensuring lubrication for equipment.	
Anti-corrosion agents	Blocks corrosive elements such as acids, water and steam. Forms a protective layer on equipment to prevent chemical wear	
Extreme pressure (EP) agents	The extreme pressure agents, activated by heat, prevent sintering.	
Anti-wear and friction reduction additives	Prevents metals from making contact (wear between surfaces), vibration, and "chatter." Keeps equipment lubricated so as to prevent loss of metal, costly stop periods and part replacement (wear).	
Anti-oxidants	Prevents grease from breaking down. Provides chemical protection against oxidation effects from oxygen and water.	
Shock absorbers	Deadens impact to minimise stresses, vibration, and "chatter" that occurs under extreme pressure and dry starts.	

## **TECHNICAL SPECIFICATIONS**

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Type of soap

Drop point

NLGI grade

Weld load (4 ball)

Water washout @ 80°C

DN rotation factor

remperature range

Base oil viscosity @ 40°C

#### Blue/areer

Calcium Sulphonate

>280°C

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800kg

n 9%

400,000

-30°C to 180°C Continuous 200°C

133 cst

### **APPLICATION AREAS**

- Construction / construction material
- Agriculture
- Transport, automobile
- Municipalities
- Maritime transport
- Wood industry
- Mechanical fabrication

- Heavy industry
- Utilities
- Manufacturing
- Mining
- Public works
- Chemical plants
- Paper plants



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