



PRODUCT BULLETIN

Introducing Blue Grease

Australia

2009



Blue Grease

Lithium Based Complex NLGI No 2

Description

Blue Grease is a superior, multi purpose grease that possesses characteristics for a wide range of anti friction and plain bearing surface characteristics, gears and couplings, in agricultural, transport, mining and marine applications.

Its extreme pressure and anti wear properties offer “high performance” that gives long service life under extreme load and shock conditions from low temperature to very high temperature environments. Together with special characteristics of shear stability combined with the inclusion of effective rust, oxidation and corrosion inhibitors, ensures that Blue Grease is the preferred recommendation for “sealed for life” Anti Friction bearings

Characteristics

Blue Grease is a scientifically advanced multi functional, multi purpose grease for all low and high temperature applications. It provides lubricant protection even where intermittent operation is experienced up to 200°C. Its ability to prevent scuffing and wear factors, as well as reducing wear under high load and shock conditions together with its supreme resistance to high temperature and its shear stable abilities is why Blue Grease is preferred over conventional greases. Another characteristic is that it thereby minimises inventory.

“Sealed for life” bearings have assured long service life due to the exceptional oxidation, rust and corrosion resistance of Blue Grease. Where extended service is required, it will maintain its original consistency, and will not “thin out” because of its “shear stability”.

Water Resistance

Where water contamination or water “washes” out the grease, contaminating influences cannot be avoided, even at elevated temperatures, effective lubricating is maintained because of the excellent resistance to water “wash out”. In water or wet conditions, It gives protection against rusting and corrosion.

Compatibility

This grease is compatible with most other greases, however, greases with Bentone or Aluminium complex thickeners should be avoided. It is preferred that possible trace contamination be removed prior to the use.

Recommendations

Blue Grease is the prime recommendation for all plain, ball, roller, and other applications requiring grease lubrication in all Automotive, Agricultural, Marine and Mining equipment. It is also highly recommended for ball joints and wheel bearing applications where shock and heat are extreme, having complete protection against the ravages of rust.

Test Data

Test Type	ASTM Australian Standards	Pass Details
NLGI Grade	----	2
Soap type	----	Lithium Complex
Colour	----	Blue
Texture	----	Buttery
Penetration @ 25 ⁰ C	D.217	----
Un-worked		270
Worked 60 strokes		275
Worked 100,000strokes Change %		+10
Dropping point ⁰ C	D.2265	260+
Roll stability	D.1831	
Penetration change %		+10
Leakage, Wheel Bearing 65g Packed, 163 ⁰ C, g	D.1263	1.5
Water wash out @ 80 ⁰ C, %	D.1264	3.5
Oil Separation 24 hours @25 ⁰ C kPa	D.1742	2
Oxidation stability	D.3336	
Pressure drop @ 1000 Hr, kPa		15
@ 500 Hr, kPa		70
Lubricant life, bearing No 204 at 1000rpm, 163oC, Hrs	D.3336	125
Rust prevention rating	D. 1743	1
Timken Bearing load kg	D.2509	23
4 Ball EP test	D.2596	
Load wear index		40
Weld point, kg		290
4Ball wear test, 40kg, 1Hr 1200rpm @ 75 ⁰ C Scar mm	D.2266	0.34
Ball joint test	D.3428	
Brine sensitivity		Pass
Torque Stability		Pass
Bass oil cSt @ 40 ⁰ C	D.445	143
@ 100 ⁰ C	D.445	14.0

MATERIAL SAFETY DATA SHEET**IDENTIFICATION**

PRODUCT NAME: Blue Grease
SYNONYMS: N/A
UN NUMBER.: N/A
POISONS SCHEDULE: None Assigned
DANGEROUS GOODS CLASS: N/A
SUB CLASS: N/A
HAZCHEM: N/A

USE AND APPLICATION: General purpose Grease for use in all applications including high temperatures and wheel bearings.

PHYSICAL DESCRIPTION / PROPERTIES

APPEARANCE AND ODOUR: Blue Green Tacky Grease.
BP / MP (°C): >250 °C
VAPOUR PRESSURE @ 25°C: N/A
VOLATILES (%): Approximately 0.90
FLASHPOINT (°C): None
SPECIFIC GRAVITY: 1.25
SOLUBILITY IN WATER: <0.1 g/l
WATER PENETRATION (x60) @ 25°C 265 - 290

CHEMICAL INGREDIENTS

Chemical Entity	CAS Number	Proportion
Heavy solvent refined paraffinic mineral oil	64742-65-0	>60%
Lithium complex soap with 12-Hydroxyl Stearic Acid	4485-12-5	10 - < 30%
DDA	123-99-9	
Proprietary sulphur EP agent, antioxidant, Tackifier.	--	<10%

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HEALTH HAZARD INFORMATION**ACUTE:**

SWALLOWED: Not expected to have any diverse effects in small amounts

EYE: May cause moderate eye irritation.

SKIN: Prolonged or frequent contact may cause skin irritation or cracking..

INHALATION: No adverse effects due to the nature of the product.

CHRONIC: None expected apart from potential for skin and eye irritation upon prolonged or repeated contact.

FIRST AID

- IF SWALLOWED:** If a large amount is consumed, induce vomiting and seek medical attention. Make sure that the patient does not choke while vomiting. Contact a doctor or poisons information centre immediately.
- EYE:** If contacted in the eye, flood with water for at least 15 minutes. In case of irritation, seek medical advice immediately.
- SKIN:** If skin contact occurs, remove clothing and wash off with soap and water. Remove and launder clothing before re use. Do NOT use solvents.
- INHALATION:** Treat as for swallowing if necessary.
- DOCTOR ADVISE** Refer to first aid above. Practically Non Toxic. Non Carcinogenic.

PRECAUTIONS FOR USE

- EXPOSURE STANDARDS;** Not Applicable due to the nature of the product.
- RESPERATORY TYE:** None required
- GLOVES:** The wearing of gloves and goggles is recommended.
- EYE PROTECTION:** As a precaution wear safety goggles.
- CLOTHING:** Wear overalls where possible.

FLAMMABILITY

- FIRE HAZARDS:** Product is combustible.
- VENTILATION:** No special ventilation is required.
- EARTHING:** Not required.
- SOURCE OF IGNITION ADVISE:** Not applicable.
- SPECIAL EQUIPMENT:** None needed.

SAFE HANDLING INFORMATION

- STORAGE AND TRANSPORT:** Store in steel drums. Keep away from strong oxidants. And source of heat or ignition. Keep away from food.
- SPILLS AND DISPOSAL:** Product is easily contained. **NOTE:** May be slippery.
- UNUSUAL FIRE /EXPLOSION HAZARDS:** None expected Auto ignition is in excess of 45⁰OC.

LIST OF DANGEROUS DECOMPOSITION

PRODUCTS:	Incomplete combustion can produce carbon monoxide.
TYPES OF EXTINGUISHER/AGENTS:	Treat as a Class B fire.
PRECAUTIONS:	None.
TOXICOLOGICAL INFORMATION	None known

ENVIRONMENTAL INFORMATION

BIODEGRADABILITY	No data available. Lithium complex greases would be expected to be slow to biodegrade due to their mineral composition and mineral oil content.
PERSISTANCE IN SOIL/WATERWAYS	Slow biodegradability. Product is not soluble in water. Density is less than water. Dispose of empty container in a fire or hot furnace.

CONTACT POINT

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