

## Machinery Food Grade

Premium Quality, High Performance Food Grease

**Machinery Food Grade AL2** is a premium, up-market, quality NLGI grade 2 grease composed entirely of ingredients that meet the requirements of Section 21 CFR 178.3570 of the Food and Drug Administration regulations. It has been ruled acceptable by the U.S. Department of Agriculture for the processing machinery in federally inspected meat and poultry processing plants. The Department of Primary Industries and Energy as Food Grade Lubricant Type A also approve **Machinery Food Grade AL2**. This approval is a very specific and mandatory requirement when lubricants are used in processing food and food support products, such as packages, cartons etc. where incidental contact with the lubricants may occur in the process.

**Machinery Food Grade AL2** will satisfactorily lubricate most machinery and equipment used in producing, manufacturing, packaging, processing, preparing, treating, transporting or holding food.

**Machinery Food Grade AL2** is pure white, odourless and tasteless. It is made with a USP white mineral oil and a special aluminium complex thickener. It contains additives to provide protection against rust and to resist oxidation.

### Summary of Benefits

- **Rust Protection** - **Machinery Food Grade AL2** contains an FDA-approved rust inhibitor. The grease protects bearings subjected to wet conditions (e.g. high humidity, water washing, steam, etc). It also protects during periods of machine Idleness.
- **Provides Bearing Seal** - This grease resists water washout and provides a seal against the entrance of water, fruit and vegetable juices to the bearing.
- **Juice Resistant** - **Machinery Food Grade AL2** is compatible with and maintains its consistency in the presence of beverages and food juices.
- **Multipurpose Properties** - **Machinery Food Grade AL2** has all those properties necessary in a lubricant to make it 'multipurpose' for varied services.
- **Within a plant** - This helps simplify lubrication maintenance and aids in reducing inventories.
- **Anti-Oxidation Stability** - This grease is manufactured with white mineral oil and contains an FDA-approved oxidant which gives the grease high stability against chemical changes.
- **Mechanical Stability** - **Machinery Food Grade AL2** is shear stable and maintains its consistency when severely worked in the bearing.
- **Protects the User** - Extreme care is taken throughout the manufacture of **Machinery Food Grade AL2** to protect its purity. If any incidental contact occurs, the grease will not affect the colour, odour or taste of the food product. The grease is packaged in food-grade containers.

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### Applications:

**Machinery Food Grade AL2** can be used for all grease applications in food processing plants. This high-load carrying EP multipurpose grease offers the safety and convenience of serving all grease points in the plant using one grease in one gun.

**Machinery Food Grade AL2** is for use wherever food and food products may be subject to incidental contact with the lubricant. The FDA regulation requires that food handling equipment be operated with good manufacturing practices to keep the amount of lubricant in the food below 10 parts per million.

**Machinery Food Grade AL2** can reduce inventory in food processing plants since it is recommended for service in equipment not handling food or where incidental contact with food may occur. This too reduces any possibility of the incorrect grease being used in food manufacturing equipment.

**Machinery Food Grade AL2** is suitable for plain and anti-friction bearings, slides, guides and other moving parts. Food Grease AL2 is recommended for service down to -30°C and up to 160°C. The product can also endure higher temperatures for short periods or if the lubrication frequency is increased.

**Product Code:** 9005

**Product Size:** 450g, 20kg

### Typical Characteristics:

	ASTM METHOD	
NLGI Grade		2
Soap Type		Aluminium
Complex Texture		Smooth
Colour		White
Penetration at 25 °C Worked (60 Strokes)	D.217	280
Dropping Point (°C)	D.2265	265
Rust & Corrosion	D.1743	Pass
Timken OK Load (lbs)	D.2509	40
4-Ball Wear, Scar diameter (mm)	D.2266	0.50
4-Ball EP, Weld Point (Kgf)	D.2596	250
Water Washout (1hr at 80°C % Loss)	D.1264	5
Oxidation Stability	D.942	

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### Typical Characteristics contd.

PSI drop 100 hours		5 max
PSI drop 500 hours		0 max
Roll Stability (2hrs at 25°C % Change)	D.1831	10 max
Copper Corrosion (3hrs at 100°C)	D.4048	1b
Flash Point (°C)		221
Pour Point (°C)		- 30
Base Oil Viscosity (cSt at 40°C)	.445	220

\*Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute a legal liability.

### Storage:

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C.

### Health, Safety and Environment

A Material Safety Data Sheet (MSDS) is available for each product. Users should consult the MSDS, and follow the precautions outlined and comply with all laws and regulations concerning its use and disposal. Used packaging material should not be incinerated or exposed to flame. After use, protect your environment. Do not pollute drains, soil or water with used product.

The Materials Safety Data Sheet is available at Royal Precision Lubricants by email:  
[info@royallubricants.com.au](mailto:info@royallubricants.com.au).