



Orelube®

**technical
information**

ET-2A

ALUMINUM COMPLEX EP FOOD GRADE GREASE

Description

Orelube ET-2A is a white, non-toxic, USDA H1 grease for the lubrication of machinery used to produce, process, package and/or transport food, beverage and pharmaceuticals where incidental contact with product may occur. All the components in **ET-2A** are in accordance with U.S. Food and Drug Administration regulation 21 CFR 178.3570, and is authorized for use as a lubricant with incidental food contact by the USDA for use in official establishments operating under the Federal Meat and Poultry products inspection program.

The USDA inspects the Meat and Poultry processing industries. Other industries adhering to USDA regulations include: Beverage plants, Breweries, Canneries (fruit, vegetables, seafood), Sugar and Confectionary products, Grain products, Bakeries, Fats and Oils, Pharmaceuticals, Cosmetics, Personal Care and Pet Food products.

ET-2A is a heavy duty grease manufactured using a blend of highly-refined, high purity USP white mineral oil thickened with an aluminum complex soap gel system produced by a state-of-the-art manufacturing and homogenizing process.

Food handling equipment is particularly difficult to properly lubricate because of the restriction on the type and quantity of ingredients that can be used in a food grade formulation. **ET-2A** solves this problem!

ET-2A is waterproof! It will repel water acting as a seal for bearings exposed to wet conditions. A good measure of this waterproof property is the standard Water Washout Bearing Test, ASTM D-1264. When tested using this method, **ET-2A** exhibits less than 1.0% weight loss.

Aluminum complex greases exhibit superior mechanical stability -- they remain the same as when they were placed in the bearing. **ET-2A** does not soften and run-out under prolonged and/or severe working conditions.

Benefits

- Exceptional EP and wear protection for a lubricant classified as *food grade*
- Excellent low temperature pumpability -- useful for cold box applications
- Food grade antioxidants enable long-lasting lubrication
- Not affected by mild acid, alkali or salt environments
- Food grade tackifier prevents leakage from bearings and fittings

Applications

- Plain (journal, sleeve, guide) bearings
- Antifriction or rolling contact (ball, roller, needle) bearings
- Grease-lubricated gears, cams, slides
- Pumps, food mixers, freezers and chillers, refrigeration units
- Bottlers, canners, packagers, fillers, wrappers, tablet/capsule presses

Typical Properties

NLGI Grade	2
Color	White
Operating Temperature Range	-10 to 350 F
Penetration, ASTM D-217	
Worked, 60 strokes	272
Worked, 10,000 strokes	273
Dropping Point, ASTM D-2265, F	550
Base Oil Viscosity, ASTM D-445	
cSt @ 100 F	110
Water Washout, ASTM D-1264	
% wt. loss @ 100 F	0.2
Rust Test, ASTM D-1743	Pass
Copper Corrosion, ASTM D-130	
24 hrs. @ 100 C	1a
Oxidation Stability, ASTM D-942	
100 hrs. @ 210 F, psi loss	3
4-Ball EP, ASTM D-2596	
Weld load, kg	315
Load wear index, kg	41
4-Ball Wear, ASTM D-2266	
1200 rpm, 40 kg, 167 F, 1 hr	
scar diameter, mm	0.51

Available in NLGI Grades 000, 00, 0, 1 and 3

