

# urschelube®

## FOOD GRADE LUBRICANTS



Urschelube is the Urschel brand of FDA/NSF/USDA H-1 food grade lubricants. Urschelube products are recommended for use in Urschel cutting machinery and may be used in other industrial equipment in food processing plants or pharmaceutical plants requiring NSF H1 registered food grade grease or oil. Routine use of Urschelube lubricants will greatly extend the life of your Urschel equipment and reduce the cost of maintenance.

Working extensively with Urschel Laboratories, Inc., Urschelube food grade lubricants are manufactured and packaged by High Performance Lubricants LLC. Urschelube food grade lubricants meet the FDA CFR Title 21 regulatory requirement as manufactured by High Performance Lubricants.

Endorsed by Urschel Engineering, Urschelube Food Grade Lubricants offer the following advantages:

## urschelube®

### FOOD GRADE OIL

#### FDA ISO 22 & ISO 100

- ◆ NSF (H-1) Registration #147665 & #147664
- ◆ Efficient in Low/High Temperatures
- ◆ Colorless and Odorless
- ◆ Produced from High Quality Base Oils
- ◆ Excellent Corrosion Protection
- ◆ Outstanding Anti-Wear Properties
- ◆ Promotes Longer Oil Life
- ◆ Extremely Water Resistant
- ◆ Lower Coefficient of Friction
- ◆ Filtered ISO 14/13/11 (ISO 4406)

Clean filtered oil can extend the life of equipment by up to four times.

## urschelube®

### FOOD GRADE GREASE

#### FDA #1.5 CLEAR & FDA #0 CLEAR FOOD GRADE GREASE

- ◆ NSF (H-1) Registrations #148158 & #148200
- ◆ Aluminum Complex Grease
- ◆ Retards Bacteria/Fungus Growth
- ◆ Extremely Water Resistant
- ◆ Non-Toxic, Non-Staining
- ◆ Nondrying Formula
- ◆ Contains PTFE
- ◆ Prevents Rust, Corrosion
- ◆ Biodegradable
- ◆ Reduces Friction

For use in a wide range of temperatures from 0° F (-18° C) to 400° F (204° C).

#### FDA #2 WHITE FOOD GRADE GREASE

- ◆ NSF (H-1) Registration #148342
- ◆ Aluminum Complex Grease
- ◆ Retards Bacteria/Fungus Growth
- ◆ Extremely Water Resistant
- ◆ Superior Adhesive/Cohesive Strength
- ◆ Polymer Additives
- ◆ Non-Pound Out Formula
- ◆ Bacteriostatic Agent
- ◆ Anti-Wear Additives
- ◆ Reduced Lube Consumption

For use in a wide range of temperatures from 0° F (-18° C) to over 400° F (204° C).

### Urschelube Food Grade Oil

ISO Grade	22	100
<b>Viscosity</b>		
cSt@40°C	22	100
cSt@100°C	4.7	12.8
<b>Viscosity Index</b>	133	123
<b>Specific Gravity</b>	0.83	0.86
<b>Density, Lb/Gal.</b>	6.9	7.16
<b>Flash Point (ASTMD-92)</b>	>430°F (221°C)	>428°F (220°C)
<b>Copper Corrosion</b>	1A	1A
<b>D-1401 Demulsibility Test</b>	Pass	Pass
<b>Foam Tendency Sequence II</b>	Pass	Pass
<b>ISO Cleanliness</b>	14/13/11	15/14/12
<b>Part Numbers</b>		
5 Gallon Pail	-	25641
4X1 Gallon Case	67282	25674
<b>NSF (H1) Registration Number</b>	147665	147664

### Urschelube Food Grade Grease

NLGI Grade	#0	#1.5	#2
<b>Thickener</b>	Aluminum Complex	Aluminum Complex	Aluminum Complex
<b>Color/Appearance</b>	Clear	Clear	White Grease
<b>Dropping Point (ASTDM-566)</b>	500°F (260°C)	500°F (260°C)	500°F (260°C)
<b>Specific Gravity</b>	0.88	0.88	0.94
<b>Density, Lb/Gal.</b>	7.3	7.3	7.8
<b>Additive Type</b>	Organic, R&O, PTFE	Organic, R&O, PTFE	Zinc Oxide & Organic R&O
<b>Flash Point (ASTMD-92)</b>	>430°F (221°C)	>430°F (221°C)	>430°F (221°C)
<b>Autoignition Point (Calculated)</b>	>500°F (260°C)	>500°F (260°C)	>500°F (260°C)
<b>Copper Corrosion</b>	1A	1A	1A
<b>Penetration @ 77°F</b>	355 - 385	285 - 315	265 - 295
<b>Shell 4-Ball (ASTM D-2596)</b>			
Weld Point, kgf	126	126	200
Load Wear Index	25	25	30
<b>Wear Scar Diameter (ASTDM-2266)</b>	0.7	0.7	0.7
<b>Oxidation Resistance (ASTDM-942)</b>			
PSI Drop, 100 Hours	<5.0	<5.0	<5.0
<b>Base Oil Viscosity (ASTDM-445)</b>			
cSt@40°C	100-150	100-150	90-110
cSt@100°C	14.3 typical	14.3 typical	-
<b>Part Numbers</b>			
14 oz. Tube	98280	98283	98287
35 Lb. Pail	98281	98284	-
120 Lb. Keg	98282	98285	-
<b>NSF (H1) Registration Number</b>	148200	148158	148342