

# ANDEROL PRODUCT DATA SHEET

## PQ AA GEAR LUBRICANTS

FOOD-GRADE GEAR LUBRICANTS

### GENERAL INFORMATION

ANDEROL® PQ AA Food Grade Gear oils are fully formulated products based on white mineral oils. They are designed to provide outstanding lubrication protection to gear sets, bearings, and pumps in applications where incidental food contact can occur. They meet the former H-1 approval requirements of the USDA. The heavier viscosity grades can be used in worm gear applications with no harm to yellow metals.

ANDEROL® Food Grade Lubricants meet all of the requirements of FDA Regulation 21 CFR 178.3750.

### TYPICAL PROPERTIES:

PROPERTIES	TEST METHOD	80	90	85W-140	140	250	1000
ISO Viscosity Grade	ASTM D-2422	68/100	150/220	320	320/460	680	1000
SAE Gear Oil Viscosity Grade	SAE J-300	80	90	85W140	140	250	1000
Viscosity @ 40°C, cSt	ASTM D-445	77	201	327	368	640	1080
Viscosity @ 100°C, cSt	ASTM D-445	9.6	18.4	24.8	28.0	43	54
Viscosity Index	ASTM D-2270	100	101	97	103	111	98
Flash Point, °C	ASTM D-92	220	190	240	190	230	200
Pour Point, °C	ASTM D-97	-12	-10	-12	-18	-6	-10
Copper Corrosion, 3 hr @ 100°C	ASTM D-130	1b	1a	1b	1b	1b	1b
Rust Test	ASTM D-665A	Pass	Pass	Pass	Pass	Pass	Pass
Four Ball Wear, 1200 rpm, 75°C 40 kg, 1 hr, mm	ASTM D-4172	0.34	0.48	0.4	0.4	0.4	0.4
Weld Point, lbs	ASTM D-2783	160	160	160	160	160	160
Specific Gravity, 15.6°C	ASTM D-1298	0.88	0.89	0.88	0.89	0.90	0.89

### APPLICATIONS

Gear systems  
Chain applications  
Bearings

**For more information please refer to the relevant Material Safety Data Sheet accompanying each product.**

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**PQ AA GEAR LUBRICANTS (SERIES)**

## ADVANTAGES

- Can be used where incidental contact with food can occur
- Excellent load carrying protection
- Rust & Oxidation inhibited
- Comparable in performance to many premium non-food grade gear lubricants

## APPROVALS

PQ® Food Grade Lubricants are approved, recommended, and field tested by many OEM's in the food processing, baking, bottling, canning, meat processing, and pharmaceutical industries.

NSF International under "USDA Regulations, Proprietary Substances and Nonfood Compounds" lists ANDEROL and PQ food grade lubricants. (See WWW.NSF.ORG) ANDEROL food grade lubricants also meet the certification requirements recommended by the National Lubricating Grease Institute (NLGI) and the European Lubricating Grease Institute (ELGI).

## HANDLING AND STORAGE

PQ Food Grade Lubricants generally present little hazard in normal handling if ordinary care is exercised. If spilled, cover with inert, absorbent material and remove. Flush the area with water.

Although PQ Food Grade Lubricants are not highly flammable, they will burn and should be kept away from open flames. In case of fire, use water spray, foam, carbon dioxide, or dry chemical. PQ® AA Food Grade lubricants should be stored in protected locations to prevent contamination. Containers should not be re-used for food grade oils and greases.



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**ANDEROL®**  
Specialty Lubricants