

Ultra-Kleen™ SP Food Grade Oil

Ultra-Kleen™ SP Food Grade Oil is a clean, non-staining lubricant that offers excellent protection against friction, wear, moisture, and corrosion.

All ingredients in **Ultra-Kleen SP Food Grade Oil** are listed substances generally recognized as safe (GRAS) or substances used in accordance with the provisions of a prior sanction or approval permitted under the rules of the U.S. Food and Drug Administration 21 CFR 178.3570 for lubricants with incidental food contact.

NSF Nonfood Compounds H1 Registered: See Product Attribute Table

ISO 21469 Certification: See Product Attribute Table

Kosher and Pareve Certified



TYPICAL APPLICATIONS INCLUDE:

Food Processing Equipment	High and Low Speed Gear Boxes	Heavily Loaded Oiled Bearings
Rotary Lobe Blowers	Worm Gears	Chain and Rollers
Vacuum Pumps	Open and Closed Gear Systems	Air Compressors

Ultra-Kleen SP Food Grade Lubricant meets or exceeds the following standards:

Gear	AGMA 9005-F16 AS	DIN 51517-3 CLP	ISO 12925-1 CKT
	Danfoss 520L0463	Fives Cincinnati P-77/74/59/35/34	JIS K 2219 Class 2
Compressor	DIN 51506 VBL	DIN 51506 VDL (ISO 46)	

PRODUCT ATTRIBUTES	TEST METHOD	TYPICAL PROPERTIES				
ISO Grade	ASTM D2422	150	220	320	460	680
AGMA No.		4	5	6	7	8
SAE Grade		90	90	140	140	140
NSF NFC Number		136658	153615	153616	153617	153618
ISO 21469 Certified		Y	Y	Y	Y	Y
Kinematic Viscosity, cSt @ 40°C	ASTM D445	150	220	320	460	680
Kinematic Viscosity, cSt @ 100°C	ASTM D445	17.7	23.0	29.6	37.9	48.8
Viscosity Index	ASTM D2270	130	128	126	125	123
Density, g/ml @ 15.5°C	ASTM D1298	0.853	0.858	0.867	0.870	0.873
Density, lb/gal @ 60°F	ASTM D1298	7.20	7.16	7.23	7.26	7.29
Pour Point, °F(°C)	ASTM D97	5 (-15)	5 (-15)	0 (-18)	0 (-18)	-6 (-21)
Flash Point, °F°C	ASTM D92	437 (225)	433 (223)	432 (222)	428 (220)	426 (219)
Dynamic Viscosity, cP @ 0°C	ASTM D7042	1650	3090	4690	7500	12600
FZG Fail Stage, A/8.3/90	ASTM D5182	13+				
Shear Stability, % loss 100 hours	CEC L-45-A	5.0	4.4	3.9	2.9	1.3
Demulsibility, oil-water-emulsion (min)	ASTM D1401	42-38-0 (15)	42-38-0 (15)	42-38-0 (15)	42-38-0 (15)	42-38-0 (15)
Oxidation Stability, Hours	ASTM D943	5000+				
Copper Corrosion, 24hr @ 100°C	ASTM D130	1B	1B	1B	1B	1B
Rust Test, Distilled Water	ASTM D665	Pass	Pass	Pass	Pass	Pass

PRODUCT ATTRIBUTES	TEST METHOD	TYPICAL PROPERTIES				
ISO Grade	ASTM D2422	150	220	320	460	680
Rust Test, Syn. Sea Water	ASTM D665	Pass	Pass	Pass	Pass	Pass
Foaming Test, Seq. I, II, and III	ASTM D892	0/0/0/0/0/0	0/0/0/0/0/0	0/0/0/0/0/0	0/0/0/0/0/0	0/0/0/0/0/0
Color		Clear				

Note: Fluid particle counts will be artificially high when evaluated through certain laser counting particle methods. Use patch test methods or methods with dilution of the oil for the highest accuracy.

Ultra-Kleen SP Food Grade Gear Oil does NOT contain any ingredient with the following allergenic, sensitizing components or allergenic proteins or substances listed in the table below:

Animal Products including Enzymes, Fats or Proteins	Genetically Modified Organisms (GMO)
Eggs	Fish
Peanuts	Soybeans and Products Thereof
Sulfites	Dairy/derivatives
Wheat	Tree Nuts
Gluten (wheat, rye, barley, oats, spelt, kamut)	Shellfish/Crustaceans/Mollusks
Sesame and Products Thereof	Lupine
Mustard and Products Thereof	Celery
Carmines/Cochineal	BHA, butylated hydroxyanisole
MSG, monosodium glutamate	BHT, butylated hydroxytoluene
TBHQ, tertiary butylhydroquinone	Hydrolyzed Vegetable Protein (HVP)
Autolyzed Yeast	Artificial Flavors
FD&C Color	Saccharin

WARRANTY:

When properly stored and used in accordance with instructions, any material not satisfactory will be replaced with any product in our line on a dollar for dollar basis provided the account is paid in full when due and Hydrotex is notified in writing within 12 months of the date of the order by the customer.

Hydrotex® is a manufacturer and distributor of high performance lubricant and fuel improver solutions. As an employee owned company, we help our customers develop sustainable solutions designed to improve system reliability, save energy, limit pollution, extend fixed asset life, reduce maintenance costs and improve fuel efficiency. Our products and services leverage over 80 years of innovation resulting in superior lubrication solutions and high touch customer service.