

Formula 500 Series

Antiwear protection for cold environments



JBT FoodTech Formula 500 Series Gear Oils are designed for severe-duty conditions where extreme temperatures can cause serious problems with conventional mineral oil or lesser grade synthetic based gear lubricants. They offer excellent gear protection and extended service in multiple applications by maintaining consistent viscosity while incorporating the added benefits of great anti-wear, excellent rust protection and high resistance to the degradation of water and trapped moisture.

Formula 500 Series Gear Oils have a high viscosity index across the board and are additized to be shear-stable and oxidation resistant preventing viscosity loss from mechanical shear and viscosity increase from oxidation. These characteristics along with their extremely low pour points allow for extended temperature protection and performance, especially in the severe environments surrounding freezing equipment found in food processing.

These oils will hold their fluid properties longer as temperatures drop. They aid in easier start-ups and quicker lubrication circulation limiting the need for ramping up or use of sump heaters. When temperatures rise during C-I-P, sanitation or drying cycles, Formula 500 Series Gear Oils maintain a thick lubricating film reducing metal-to-metal contact and gearing component wear. The additive package is non-detergent and ashless and has included foam suppressants.

Formula 500 Series Gear Oils exhibit excellent stability in the presence of water and superior demulsibility, which allows for the easy separation of water making draining off excess water an easy operation.

Formula 500 Series Gear Oils meet USDA H2 requirements for lubricants used in federally inspected meat and poultry plants where there is no possibility of food contact. The “new” Formula 500 FG Series gear oils are now offered for applications desiring USDA H1 food grade for incidental contact.*



Features

- Long Life Oil Providing Extended Drains
- Thermal Stability
- Fortified for Anti-wear, Antifoaming, Antirust and Antioxidation
- Superior Cold Temperature Performance
- Hydrolytically Stable and Readily Separates from Water

Benefits

- Maintenance Time and Costs are Reduced
- Handles Temperature Swings Caused by Programmed Cycles
- Eases Start-ups from Cold
- Helps Gear Boxes Last Longer
- Meets AGMA R&O and Synthetic Gear Oil Classifications
- High Affinity to Metal Surfaces
- Extremely Low Pour Points

Part Numbers:

Formula 532*	356319A	5 Gallon Round Plastic Pail
	356319B	55 Gallon Steel Drum
Formula 546*	356026A	5 Gallon Round Plastic Pail
	356026B	16 Gallon Steel Keg
	356026C	55 Gallon Steel Drum
Formula 546 XLT	356229A	5 Gallon Round Plastic Pail
	356229C	55 Gallon Steel Drum
Formula 568 LT*	356211A	5 Gallon Round Plastic Pail
	356211B	55 Gallon Steel Drum
Formula 5150 LT	356212A	5 Gallon Round Plastic Pail
	356212B	55 Gallon Steel Drum
Formula 5320	356318A	5 Gallon Round Plastic Pail
	356318B	55 Gallon Steel Drum
Formula 5460 LT	356213A	5 Gallon Round Plastic Pail
	356213V	55 Gallon Steel Drum

Typical Properties Inspection	532	546	546XLT	568LT	5150LT	5320	5460LT	Method
ISO Grade	32	46	46	68	150	320	460	ASTM D 2422
SAE Grade	10	20	20	30	50	--	--	SAE J 300
AGMA Class	0S	1S	1S	2S	4S	6S	7S	
VISC. @ 40°C, cSt	29.3	44.6	44.8	68.4	150.8	321.9	457.9	ASTM D 445
VISC. @ 100°F, cSt	5.9	7.5	9.8	10.45	18.5	31.7	39.1	ASTM D 445
Viscosity Index	153	134	214	140	137	137	131	ASTM D 2270
Pour Point, °F	-69	-60	-49	-54	-36	-13	0	ASTM D 97
Pour Point, °C	-56	-51	-45	-48	-38	-25	-18	ASTM D 97
Flash Point, °F	464	500	406	471	500	500	500	ASTM D 92
Flash Point, °C	240	260	208	244	260	260	260	ASTM D 92
Fire Point, °F	536	568	460	547	572	568	579	ASTM D 92
Fire Point, °C	280	298	238	286	300	298	304	ASTM D 92
Color	Red	Red	Red	Red	Red	Red	Red	
Specific Gravity (Typical)	0.8353	0.8373	0.8398	0.8428	0.8514	0.8591	0.8633	ASTM D 1298
Copper Corrosion	1b	1b	1b	1b	1b	1b	1b	ASTM D 130
Rust Prevention	Pass	Pass	Pass	Pass	Pass	Pass	Pass	ASTM D 665
Four-Ball Wear, mm	0.40	0.40	0.40	0.40	0.40	0.35	0.35	ASTM D 4172
NSF H2 Registration #	--	138304	--	--	--	--	--	

**To place an order or receive additional information call:
Order Entry Department 507-645-9546, 800-408-7788 option 3,
Fax 507-645-9664, email: frigostein.info@jbt.com**

www.jbtfoodtech.com



JBT FoodTech
1700 Cannon Road
Northfield, MN 55057
Phone: +1 507 645 9546
Fax: +1 507 645 9664
Email: frigostein.info@jbt.com