



SHELL FM GEAR OILS

Food grade gear lubricants

Product Description

Shell FM Gear Oils 220 and 460 are recommended for the lubrication of gear sets in food plants where there is the possibility of incidental contact of the lubricant with food being processed. These colorless, odorless products, are manufactured from high quality base stocks and contain selected additives to provide long term oxidation stability, rust protection, wear protection properties, and good demulsibility. **Shell FM Gear Oils** are manufactured in accordance with FDA 21 CFR 178.3570 and meet former 1998 USDA guidelines as an H-1 lubricant with incidental food contact for use in plants operating under the Federal Meat and Poultry Products Inspection Program. **Shell FM Gear Oils** are certified Kosher-Parve by the Kosher Overseas Association of America.

Note: These products are not intended for use as an ingredient of food, cosmetics or pharmaceuticals.

Applications

- gear drives and reducers in food, drug and cosmetic plants
- circulating Oil Systems
- pump bearing lubricant
- release agent on tank closure gaskets or seals

Features/Benefits

- minimizes wear
- excellent water separability characteristics
- good oxidation stability
- resistance to foaming
- non-corrosive to gear and bearing materials (i.e. steel, copper, and bronze)

Approvals

- FDA 21 CFR 178.3570
- NSF International

Typical Properties of Shell FM Gear Oils

	Test Method	ISO Viscosity Grade	
		220	460
Product Code		65551	65552
NSF Registration Number		65551	65552
Gravity, °API	D 1298	30.5	29.4
Viscosity:			
@ 40°C, cSt	D 445	227	446
@ 100°C, cSt	D 445	19.3	31.2
@ 100°F, SUS	(calc)	1201	2382
@ 210°F, SUS	(calc)	98	153
Viscosity Index	D 2270	96	120
Flash Point, COC, °F	D 92	350	390
Pour Point, °F	D 97	10	15
Four-Ball EP			
Load Wear Index, kgf	D 2783	32	29
Weld Point, kgf	D 2783	160	160

Handling & Safety Information

As for all oils, prolonged or repeated contact with the skin should be avoided. For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.