



The Ultimate Lubricant

# 588



Nonfood Compounds  
Category Code : H1  
Registration Number : 150913

## DESCRIPTION:

Omega 588 Synthetic FG Machinery Oil is formulated with synthetic polyalphaolefin (PAO) and a package of FDA approved additives to offer versatile applications on processing machineries and systems in the food & beverage and pharmaceutical industries. Omega 588 is NSF H1-listed and complies with the stringent Halal and Kosher quality standards.

## HALAL & KOSHER CERTIFIED:

Omega 588 is manufactured according to ISO 21469 which supports producers who adopt Hazard Analysis and Critical Control Points (HACCP) and Good Manufacturing Practice (GMP) programs. HACCP and GMP are both

systems intended to ensure the safety of food, chemicals and pharmaceuticals. GMP is the "first step" to food safety, as a series of principles to be fulfilled to ensure that products meet stringent requirements of safety and quality. It can be one of the components of HACCP, which is a systematic approach to production that is designed to prevent hazards from occurring.

Omega 588 is also manufactured in accordance with the strict Halal and Kosher quality standards. A designated production line/area is used to manufacture Omega 588. This special oil production line/area is completely segregated to avoid cross-contamination caused by any prohibited materials according to the requirements of these quality standards.



## ADVANCED SYNTHETIC FORMULATION:

Omega 588 is formulated with synthetic shear-stable PAO fluid with high viscosity index. Viscosity to temperature relation is important in choosing an effective lubricating fluid for any machine exposed to a wide range of operating temperatures. As compared with the conventional mineral based food grade oils, Omega 588 has relatively higher viscosity at temperatures above 100°C (100 degree Celsius), reinforcing metal protection at high temperatures. At temperatures below 0°C (zero degree Celsius), it has lower viscosity and better fluidity, reducing friction and energy consumption. This performance advantage over the food grade mineral oils alone can typically reduce the operation costs by at least ten percent.

## APPLICATIONS:

Omega 588 will outlast and outperform any food grade mineral oil in any application. Omega 588 can be used in compressors, hydraulic and circulating systems, low- to medium-loaded bearings, lightly loaded gears, vacuum pumps, and valves where food grade oil is required. Omega 588 ultimately extends the re-lubrication interval and reduces the maintenance costs of various machines in: Bakeries, Beverage Bottling and Canning, Breweries, Cosmetics Manufacturing, Dairy Products, Fish and Seafood Processing, Fruit and Vegetable processing, Food and Beverage Containers, Meat and Poultry Processing, Pet Food and Animal Feed, Pharmaceutical Manufacturing, Prepared & Snack Foods, etc.

## DESIGNED FOR VERSATILITY:

Fortified with a proprietary package of additives including anti-wear agent, corrosion & oxidation inhibitors, and foam depressant, Omega 588 is quality designed to offer multi-purpose lubrication with the following physical and chemical characteristics:

- Excellent thermal, oxidative and hydrolytic stability – minimizing the risk of formation of acidic and/or carbon deposits which accelerate the degradation of lubricating oils.
- Excellent wear & corrosion protection – maintaining or even extending the service life of machinery.
- Excellent water separation and air release properties – optimizing the efficiency of machine operation and lowering the risk of premature machine failure.
- Odorless & non-toxic – providing an operator-friendly “clean” work environment, which is particularly important in the food and beverage industry.
- Compatibility with all general types of seals and coatings – lowering the risk of oil leakage.

With these outstanding benefits, wide service temperature range and the compliance with various quality standards, Omega 588 provides reliable and versatile lubrication solution to maintenance professionals in virtually all food and food-related industries.

## TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT		
		ISO VG32	ISO VG68	ISO VG220
Appearance	Visual	Clear yellow	Clear yellow	Clear yellow
Density, kg/L @ 15°C	D-1298	0.835	0.843	0.847
Viscosity, cSt @ 40°C	D-445	30.3	67.6	220
Viscosity, cSt @ 100°C	D-445	6.1	11.3	30
Viscosity Index	D-2270	155	160	177
Flash Point, COC, °C	D-92	242	257	254
Pour Point °C	D-97	-48	-45	-34
Total Acid Number, mg KOH/g	D-664	0.8	0.8	0.8
Four Ball Wear Test, mm	D-4172	0.5	0.32	0.31
Welding Load, Kg	D-2783	160	200	160
Demulsibility @ 54°C, minutes	D-1401	<10	<10	<9
Rust-Preventing Characteristics	D-665B	Pass	Pass	Pass
Copper Strip Corrosion	D-130	1a	1a	1a
Recommended Service Temperature, °C	-	-35 to 160 (Minus thirty-five to one hundred and sixty)		-25 to 160

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.