

December 2, 2016

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# Product Data Sheet



**NOTE:** The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current.

## ALUMINUM COMPLEX THICKENED SEMI-SYNTHETIC

# SumTech® FMG Series

*SUMTECH® FMG grease is an aluminum complex thickened semi-synthetic lubricating grease created specifically for the food service, beverage, and packaging industries. The aluminum complex thickener system provides excellent water resistance and a broad operating temperature range. A combination of newly developed additives and dependable HX1 additives provide excellent anti-wear/extreme pressure properties, oxidation resistance, and corrosion prevention. Special additives are employed to keep the grease in place between wash-down cycles which improves equipment and lubricant life in wet conditions. SUMTECH® FMG grease is NSF Registered and meets USDA 1998 (H1) guidelines (lubricants with incidental food contact).*

*SUMTECH® FMG is ideal for lubrication of production equipment in beverage canning operations, bottling operations, meat and poultry processing, dairy operations, fruit and vegetable processing, bakeries, and pharmaceutical plants.*

## Physical Properties

PRODUCTS	FMG-0	FMG-1	FMG-2
NLGI Grade	0	1	2
Color	Off White to Yellow	Off White to Yellow	Off White to Yellow
Texture	Homogenous	Homogenous	Homogenous
Base Oil	Mineral Oil/PAO	Mineral Oil/PAO	Mineral Oil/PAO
Base Oil Properties			
Viscosity @ 40°C cSt	138 cSt	138 cSt	138 cSt
Viscosity @ 100°C cSt	17.5 cSt	17.5 cSt	17.5 cSt
Viscosity Index	140	140	140
Thickener Type	Aluminum Complex	Aluminum Complex	Aluminum Complex
Density at 20°C (g/cm)	-	.95	.97
Service Temperature Range	-35°C-148°C(300°F)	-35°C-148°C(300°F)	-30°C-148°C(300°F)
Drop Point	210°C (410°F)	250°C (482°F)	270°C (518°F)
Penetration			
Worked 60 dbl strokes	360	320	280
100,000 dbl strokes	-	350	308
Oil Separation	Less than 10%	Less than 7%	Less than 3%
4-Ball Wear ASTM D2266	0.45 mm	0.45 mm	0.47 mm
4-Ball Load Wear Index	37.9	48.9	64.3
Last non-seizure Load	80 kg	100 kg	100 kg
Weld Load	250 kg	315 kg	400 kg
Corrosion Preventative Properties ASTM D 1743	-	Pass	Pass
Corrosion Preventative Properties EMCOR			
ASTM D 6138	0.0	0.0	0.0
Water Washout			
ASTM D 1264	4.5%	9%	3%
NSF Registered	H1	H1	H1
Kosher Approved	Yes	Yes	Yes
Halal Approved	Yes	Yes	Yes

**Shelf Life:** Product shelf life is 2 years from the date of manufacture, after which the product should be recertified prior to use.