



Nonfood Compounds  
Program Listed H1  
Registration #  
NLGI 2: 145412  
NLGI 2: 145415

**WearGuard™ D-A SYN FQM Series** multi-purpose PAO-based greases are excellent for use in a wide variety of industrial applications, especially where FDA/USDA regulations specify H-1 grease for “incidental food contact”. **WearGuard™ D-A SYN FQM Series** of greases provide equipment protection and performance characteristics expected in premium quality synthetic grease. These greases provide long life, wide operating temperature range, very high load carrying capacity, excellent water washout, and anti-corrosion properties. **WearGuard™ D-A SYN FQM Series** greases are designed for use in all types of food machinery, sliding bearings, and anti-friction bearings and other low to medium speed Industrial bearings.

## Characteristics

- Excellent mechanical stability
- Excellent thermal and oxidative stability
- Wide operating temperature range
- Serviceable at -40°F and useful to 300°F continuous and 400°F intermittently
- Outperforms other greases under wet conditions
- Complies with FDA 21 CFR 178.3570 regulations for H-1 food grade /GCLB bearing rated

## Typical Properties

WearGuard™ D-A SYN FQM Series	ASTM Test	WearGuard™ D-A SYN FQM #00	WearGuard™ D-A SYN FQM #0	WearGuard™ D-A SYN FQM #1	WearGuard™ D-A SYN FQM #2
NLGI Grade		00	0	1	2
Penetration-worked	D217	400-430	355-385	310-340	265-295
Penetration after 10 k strokes				310-325	310-315
Dropping Point °F	D2265	570	570	570	570
Rust Test	D1743	Pass	Pass	Pass	Pass
4 Ball EP					
Weld Load kg	D2596	400	500	500	400
Load Wear Index	D2783	47.23	62	62	50
Timken OK Load kg	D2509	27	27	27	27
4 Ball Wear Scar Dia. Mm					
40 kg, 1200 rpm, 1 hr 75° C	D2266	0.56	0.40	0.40	0.50
Water Washout % Loss 79° C		2.5	2.5	2.5	2.5
Specific Gravity	D1298 °C	0.89	0.89	0.89	0.89
Thickener		Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex
Base Oil Viscosity, cSt	40° C	100	100	100	100
Base Oil		PAO	PAO	PAO	PAO
Oxidation Resistance					
Bearing Life (Hours)	D3527	220	220	220	220
RPVOT 1,000 hours	D942	6.0 psi drop	6.0 psi drop	6.0 psi drop	6.0 psi drop
Low Temp Torque, g-cm	D1478				
Start Limit <5,000		3500	3500	3500	3500
1 hour running <700		600	600	600	600



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