

**ArChine Foodcare GRS-460-F****“Food Grade Applications”****GENERAL**

ArChine Foodcare GRS-460-F is part of a family of new high performance synthetic lubricants especially designed to meet the requirements of the food industry. For the first time, a truly high performance grease is available for applications with indirect food contact.

The growing trend to extend intervals between lubrication and the increasing use of sealed-for-life bearings impose increasingly stringent demands on grease performance. Service under temperature extremes, shock loading, vibration, and water wash conditions add to these demands. ArChine Foodcare GRS-460-F Synthetic Grease is compounds with a polyalphaolefin (PAO) base fluid to provide extended service life and wide temperature range capability. Coupled with a high performance additive package, this new product is a real multi-purpose lubricant which can effectively handle a wide range of applications.

Authorized by USDA for use in Federally inspected meat and poultry plants.

Complies with FDA 21 CFR 178.3570 – Lubricants with Incidental Food Contact.

**FEATURES**

Several outstanding performance features of ArChine Foodcare GRS-460-F Synthetic Grease are:

- \* Wide operating temperature range
- \* Excellent low temperature torque characteristics, as low as -54°C (-65°F) soft and serviceable to -62°C (-80°F)
- \* Very high dropping point of 274°C (526°F)

**Distributor Wanted**

Shanghai PingYiao Trading CO., Ltd.

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- \* Long bearing life at elevated temperatures and high speeds, provides long term lubrication at 204°C(400°F)
- \* Exceptionally good resistance to oxidation and water washout
- \* Very good extreme pressure and antiwear properties
- \* Consistency maintained under extensive shearing
- \*The polyalphaolefin base fluid in this product is similar to mineral oils. Therefore, seal materials compatible with conventional petroleum products are also compatible with ArChine Foodcare GRS-460-F Synthetic Grease.

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#### APPLICATIONS

Because of its truly multi-service capabilities, ArChine Foodcare GRS-460-F "Food Grade" Synthetic Grease is suitable for lubrication of most anti-friction bearings over a wide range of temperatures and speeds where long retention, oxidation stability and resistance to the washing effects of water are necessary. This grease is also recommended for splines, screws, grease-lubricated worm gears and other mechanisms featuring steel-to-steel or steel-to-bronze surfaces. Additionally, it is recommended in bearing situations where oscillatory motion and vibration create problems.

#### TYPICAL PROPERTIES

Dropping Point, °C .....	274
NLGI Number .....	1.2
Penetration ASTM D217	
Unworked .....	315
Worked 60 Strokes .....	326
Worked 100,000 Strokes .....	385
Color, Visual .....	Tan

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## Copper corrosion, FTMS 791-5309

24h ,100°C: Corrosin ..... None

Rust Prevention, D1743 ..... 1-1-1

## Oil Separation, FTMS 791-321

30h, 177°C(350°F):%..... 7.05

Evaporation, D2595, 22h., 177°C:% ..... 4.4

## Leakage Tendencies, D1263(Mod.) 24h.,121°C(250° )

Deposit on bearing surface..... None

Leakage to hub:g ..... 0.5

Leakage to collector:g ..... 1.0

Total Leakage:g ..... 1.5

## Roll Stability,D1831

Penetration Before 315

Penetration After 325

Consistency Change: Points ..... +10

## Water Washout ASTM D1264 Grease loss

37.8°C(100°F):%..... 0

79.4°C(175°F):%..... 0

## Wear Test, 4-Ball,D2266

Avg. Scar Diameter:mm ..... 0.62

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