



Nonfood Compounds
Program Listed

February 18, 2011

Mr. Yang Ming-Fa
Patricia Lubricants (Shanghai) Limited
4th Factory, No. 530, Hui Cheng Road
Nan Hui Industrial Pk., Nan Hui District
Shanghai 201300
China

RE: ArChine Foodcare GRS 460-F
Category Code: H1
NSF Registration No. 144330

Dear Mr. Yang Ming-Fa:

NSF has processed the application for Registration of **ArChine Foodcare GRS 460-F** to the NSF International Registration Guidelines for Proprietary Substances and Nonfood Compounds (2009), which are available at www.nsfwhitebook.org. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient and labeling review.

This product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is a potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compound must be removed from the equipment surface by washing or wiping, as required to leave the surface effectively free of any substance which could be transferred to food being processed.

NSF Registration of this product is current when the NSF Registration Number, Category Code, and Registration Mark appear on the NSF-approved product label, and the Registered product name is included in the current NSF White Book Listing of Nonfood Compounds at the NSF website (www.nsfwhitebook.org). The NSF Registration Mark can be downloaded by clicking the "Download Registration Mark" link on the NSF website (www.nsfwhitebook.org).

NSF Listing of all Registered Nonfood compounds by NSF International is not an endorsement of those compounds, or of any performance or efficacy claims made by the manufacturer.

Registration status may be verified at any time via the NSF website, at www.nsfwhitebook.org. Changes in formulation or label, without the prior written consent of NSF, will void Registration, and will supersede the on-line listing.

Sincerely,

Clifton Mclellan
NSF Nonfood Compounds Registration Program

Company No: C0036286

ArChine Foodcare GRS-460-F**亚群食品级合成润滑脂****产品介绍**

ArChine Foodcare GRS-460-F 是一种新的高性能合成润滑酯，特别设计用于食品工业。这是第一次一种真正的高性能润滑脂可用于与食品间接接触。

其发展倾向即扩大润滑油与越来越多被选用的终身密封的轴承之间的间隔，对润滑油的性能提出了更为严苛的要求。ArChine Foodcare GRS-460-F 在极温、冲击荷载、震动和水洗的条件下也加入了这些要求。

ArChine Foodcare GRS-460-F 合成润滑脂是以 PAO 为基础油的化合物，具有较长的使用寿命，并且 ArChine Foodcare GRS-460-F 可以在比较广的温度范围内使用。GRS-460-F 由美国农业部（USDA）授权用于经联邦检查的肉类和家禽生产厂。

ArChine Foodcare GRS-460-F 通过了美国食品及药物管理局 21CFR178.3570 的认证——可与食品接触的润滑油。

特性

- ArChine Foodcare GRS-460-F 合成润滑脂的几条高性能特征如下：
- 宽泛的使用温度范围
- 杰出的低温扭矩特性，低至-54°C（-65°F）仍保持柔，在-62°C（-80°F）仍可使用
- 高滴点 274°C（526°F）
- 在提升温度和速度的情况下可延长轴承的寿命，在 204°C（400°F）提供长效润滑
- 出色的抗氧化和水洗性
- 优秀的极压和防磨特性
- 具有优异的剪切稳定性

ArChine Foodcare GRS-460-F 产品中的 PAO 基础油与矿物油相似。因此与传统的石油产品兼容的密封材料也能与 ArChine Foodcare GRS-460-F 合成润滑脂相兼容。

应用

推荐用于齿条、螺孔、蜗轮和其它钢与钢或钢与铜接触表面的的机械。另外推荐用于摆动运动和振动轴承。

典型特性

滴点°C	274
NLGI 值	1.2
渗透性 ASTM D217	
非工作时	315
60 strokes	326
100, 000 strokes	385
颜色，视觉的	棕褐色

上海及川贸易有限公司

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铜腐蚀性, FTMS 791-5309	
24 小时, 100°C: 腐蚀	无
防锈保护, D1743	1-1-1
油分离性, FTMS 791-321	
30 小时, 177°C (350°F): %	7.05
挥发性, D2595, 22 小时, 177°C: %	4.4
渗漏倾向, D1263 (Mod.)	
24 小时, 121°C (250°F)	
轴承表面沉淀物	无
轮毂渗漏: 克	0.5
收集器渗漏: 克	1.0
总渗漏: 克	1.5
横向动稳性, D1831	
渗透之前 315	
渗透之后 325	
连续性变化: 点.....	+10
水洗性 ASTM D1264 润滑油丢失	
37.8°C (100°F): %.....	0
79.4°C (175°F): %.....	0
磨损实验, 4 球, D2266	
Avg.疤痕直径: 毫米.....	0.62
极压实验, 4 球, D2296	
L.W.I.....	50
焊点: 千克.....	250
高温性能, FTMS 931-333	
pope 轴, 10000RPM	
尺寸 204 Brg., 177°C: 小时.....	+700 小时
低温扭矩, D1478	
-54°C (-65°F)	
启动: g-cm.....	1268
运行: (Ih): g-cm.....	228
美国钢活动性实验	
No.1 毛细管, 150psi	
流动: g/s	
25°C (77°F)	50.2
-17.8 (0.4)	1.76
-28.9 (-20.2)	0.40
-40.0 (-40)	0.081
-45.9 (-45)	0.064
-53.9 (-65.2)	0.039
-62.2 (-79.6)	0

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Timken 极压实验, D2509

O.K. 负荷: 磅..... 40

氧化稳定性, D942

压力下降: kPa

100 小时..... 2.5

200..... 5.0

300..... 5.0

400..... 12.5

500..... 17.5

基本油特性

粘度, Kin:37.8°C (100°F) cSt.....33.87

98.9°C (210°F) cSt.....6.0

粘度, SUV:37.8°C S.....158.6

98.9°C S.....46.0

粘度指数.....137

倾点°C (°F)-68 (-90)

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