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Http://www.100y.com.tw

THK特有油脂

# AFC油脂

●基础油:高级合成油

●增稠剂:尿素类



AFC油脂由于其特殊的添加剂以及尿素类增稠剂, 具有高耐微振磨损腐蚀性, 使用高级合成油作为基础油。

# 【特性】

- (1) 高耐微振磨损腐蚀性 AFC油脂在设计上对于防范微振磨损腐蚀具 有高度的有效性。
- (2) 使用寿命长 与普通的金属皂基油脂不同, AFC油脂在氧化 稳定性方面表现优异, 因此可长时间使用, 从 而减少了维护工作。
- (3) 使用温度范围广 由于使用高级合成油作为基础油, 其润滑性能 在-54°C~+177°C的极宽范围内均保持良好。

# 【代表特征】

项 目		代表特征值	测试方法
增稠剂		尿素类	
基础油		高级合成油	
基础油动粘度:mm²/s(40℃)		25	JIS K 2220 23
混合稠度(25°C, 60W)		288	JIS K 2220 7
混和稳定性(10万W)		341	JIS K 2220 15
滴点 °C		269	JIS K 2220 8
蒸发量:mass%(99°C, 22h)		0. 2	JIS K 2220 10
离油度:mass%(100℃, 24h)		0.6	JIS K 2220 11
铜板腐蚀(B方法, 100°C, 24h)		合格	JIS K 2220 9
低温扭矩:mN·m (-20°C)	起动	160	JIS K 2220 18
	旋转	68	013 K 2220 16
4球试验(热粘负荷):N		3089	ASTM D2596
使用温度范围 °C		-54~177	
外观颜色		褐色	

# 润滑相关产品

# 【耐微振磨损腐蚀性试验数据】

# ● AFC油脂的试验数据(滚动面状况的比较)

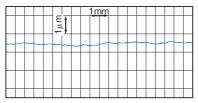
图中的试验数据是与普通轴承用润滑脂的比较试验结果。

# 〈试验条件〉

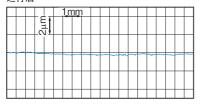
项目	内容		
行程	3mm		
每分钟的行程	200m i n <sup>-1</sup>		
总行程数	2.88×10⁵(24小时)		
面压	1118 <b>M</b> Pa		
油脂封入量	12g/1LM滑块(每8小时补充)		

# AFC油脂

# 运行前

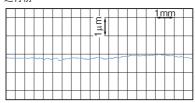


## 运行后

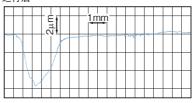


# 一般轴承用油脂

# 运行前



## 运行后



# **THK AFC Grease**

No.1030-T15291

# **MATERIAL SAFETY DATA SHEET**

Note: Read and understand Material Safety Data Sheet before handling or disposing of product.

## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRODUCT TYPE: MANUFACTURER'S NAME:

Lubricating grease THK CO.,LTD. 3-11-6, Nishi-Gotanda, Shinagawa-ku, Tokyo, Japan 03-5735-0225

ADDRESS: TELEPHONE NUMBER: EMERGENCY TELEPHONE NUMBER: 03-5735-0225 DATE PREPARED: Mar.31, 2006

## SECTION 2. COMPOSITON / INFORMATION ON INGREDIENTS

CITEMICAL FAMILY: Lubricating Grease. FORMULA: not applicable INGREDIENTS AND COMPONENTS(% by mass): Base oil (Synthetic ester and hydrocarbon oil) Thickener (Urea derivatives) MIXTURE: Base oil, thickener and additives

HAZARDOUS INGREDIENTS : NAME

CAS No CONTENTS (%)

See Section 8 for exposure limits (if applicable)

# SECTION 3. HAZARDS IDENTIFICATION

CLASS NAME OF HAZARDOUS CHEMICALS FOR SDS IN JAPAN: Not applicable PHYSICAL AND CHEMICAL HAZARDS: Combustible ADVERSE HUMAN HEALTH EFFCTS: Prolonged and repeated contact may cause skin irritation. No data available.

### SECTION 4. FIRST AID MEASURES

EYES: Immediately flush with water for at least 15 minutes. Get medical attention if eye irritation persists.

SKIN: Remove excess with cloth or paper and wash area thoroughly with soap and water.

INGESTION: Consult a physician. Do not induce vomiting.

INHALATION: Keep the victim warm and quiet. Remove the victim from the contamination immediately to fresh air.

NOTE TO PHYSICIANS: Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

# SECTION 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

WASTE DISPOSAL:

FLAMMABLE PROPERTIES:
FLASH POINT: 220 °C METHOD: Seta Flash Method
FLAMMABLE LIMITS: I.FL: Not applicable. UFL: Not applicable.
AUTOIGNITION TEMPERATURE: No data available
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition and combustion may produce carbon monoxide
and/or carbon dioxide.

EXTINGUISH MEDIA: Dry chemical, Water fog, CO<sub>2</sub> Foam, Sand/Earth
FIRE FIGHTING INSTRUCTIONS: Dense smoke. Fire fighter wear an approved self-contained breathing apparatus.
Do not use water except fog.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

PROCEDURE FOR CLEAN-UP: Transfer bulk of mixture into another container. Absorb residue with an inert material such as earth,

Trainster but or minutes and ended to state or a send and verminutes. Send and verminutile.

Sweep up and dispose solid waste in accordance with local, state and federal regulations. Dispose of in accordance with all applicable federal, state and local regulations.

# **THK AFC Grease**

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# SECTION 7. HANDLING AND STORAGE

HANDLING: Contact with eye may cause irritation. Use protective glasses or other devices to avoid contact with eyes.

Contact with skin may cause irritation. Use protective gloves to avoid skin contact.

Do not swallow. (Eating product cause diarrhea and vomiting.)

Wear gloves to avoid injury on hands at opening the container.

Keep out reach of children.

STORAGE: Keep container closed until ready for use. Storage away from fire source or sunlight and in cool dry area.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS:

ENGINEERING MEASURES: None

PERSONAL PROTECTIVE FOUIPMENT

RESPIRETORY PROTECTION:

EYE PROTECTION:

HAND AND BODY PROTECTION:

OTHER PROTECTIVE EQUIPMENT:

OTHER PROTECTIVE EQUIPMENT:

None

Good general ventilation should be sufficient for most condition.

Chemical safety goggles and if handled hot, full face shield.

Protective gloves, rubber or plastic oil resistant.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Light brown, paste, Slight odor Not applicable Not applicable 0.98 Negligible Not applicable Slower APPEARANCE AND ODOR: VAPOR PRESSURE: VAPOR DENSITY(AIR=1): SPECIFIC GRAVITY(H 2 O=1): SOLUBILITY IN WATER: SOLUBILITY IN —;

EVAPORATION RATE (n-Butyl Acetate=1) MELTING POINT °C: DROPPING POINT °C:

BOILING POINT:

Not applicable 258°C Not applicable

# SECTION 10. STABILITY AND REACTIVITY

STABILITY: (CONDITION TO AVOID) Product is stable under normal condition. Avoid over heating. INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxide of nitrogen, sulfur, molybdenum, zinc, calcium.

HAZARDOUS POLYMERIZATION:

REACTIVITY WITH WATER:

None

# SECTION 11. TOXICOLOGICAL INFORMATION

CORROSIVE AND IRRITANT PROPERTIES:
ALLERGENIC AND SENSITIZING EFFECTS:
ACUTE TOXICITY:
SUB-CHRONIC TOXICITY:
CHRONIC FFECT:
MUTAGENIC EFFECTS:
EFFECTS ON THE REPRODUCTIVE SYSTEM:
No data available

# SECTION 12. ECOLOGICAL INFORMATION

BIODEGRABILITY: No data available BIOACCUMULATION: No data available FISH TOXICITY: No data available

# SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate in accordance with applicable regulation.

ATTENTION: Do not use pressure to empty this container. When empty, container may have vapor or product residue.

Do not cut, puncture or weld on near the drum.

# **THK AFC Grease**

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# SECTION 14. TRANSPORT INFORMATION

DOT Proper Shipping Name: UN Number: FIRE SERVICE LAW (JAPAN): Not applicable. Not applicable. Not applicable.

# SECTION 15. REGULATION INFORMATION

Regulatory information with regard to this product in your country or your region should be examined by your own responsibility.

US TSCA (Toxic Substances Control Act):
All components of this product are listed on the TSCA inventory of Chemical Substances.

US OSHA (Occupational Safety and Health Act):
This product is hazardous according to the OSHA Hazard Communication Standard,
29 CFR 1910.1200.

US CERCLA (Comprehensive Environmental Release, Compensation & Liability Act): This product contains no CERCLA Hazardous Substances .

US SARA (Superfund Amendment & Reauthorization Act ) Title III: This product contains no Extremely Hazardous Substances. SARA Hazard Categories (311/312): None SARA Toxic Release Inventory (TRI) (313):None

# SECTION 16. OTHER INFORMATION

REFERENCE:
CMA Interim Guideline for the Preparation of MSDS. Chapter 7: MSDS Examples.
ACGIH Threshold Limit Values for Chemical Substances in the Work Environment. (1998-1999)

This MSDS is an addition and complementary document beside the technical data sheet. The information is based upon our knowledge about the product at the date of edition. Since we cannot anticipale or control the different conditions under which these information or our product may be used, we make no guarantee that recommendations will be adequate for all individuals and situations.