





ExactTM Aluminum Complex FG Grease

Food Grade Aluminum Complex Machinery Grease (NLGI #2)

About ExactTM Aluminum Complex FG Grease (NLGI #2)

Exact™ Aluminum Complex FG Grease provides superior performance while providing the integrity you need for your operation, even during tough or wet conditions. Exact™ Aluminum Complex FG Grease is NSF H1 registered and CFIA approved as suitable for incidental contact with food. Exact™ Aluminum Complex FG Grease will provide excellent corrosion protection and, when used properly, will help to reduce grease intervals. It is recommended for high temperature applications, ball roller, journal and sliding bearings.

Applications

Exact™ Aluminum Complex FG Grease is best suited for:

- Valves
- Slideways
- Canners and packers
- Wrappers
- Toggle switches
- Packing glands
- Central lubricating systems

Available Packaging

These products are available in 400 gram cartridges, 17 kg. Pails, 55 kg. Kegs, and 180 kg. drums.

Discover

the exact advantage www.exactspecialty.com

ExactTM Aluminum Complex FG Grease

Food Grade Aluminum Complex Machinery Grease (NLGI #1 & #2)

Performance Benefits

Exact™ Aluminum Complex FG Grease provides the following benefits:

- Does not stain or contaminate clothing or porous surfaces
- Can handle a wide variety of applications, allowing you to reduce your inventory of greases
- Prevents damage in wet or moist operations
- High temperature stability
- Resistant to washout from water, steam and various sterilizing chemicals
- Protects against equipment corrosion
- Meets or exceeds FDA 21 CFR 178.3570 standards for lubricants with incidental food contact

Technically Speaking

Test	ASTM METHOD	TYPICAL RESULTS
NLGI Grade #		2
NSF Registration Number		139671
Thickener Type	D-128	Aluminum Complex
Penetration: 60 Strokes @ 25°C/77°F	D-217	260-300
Dropping Point: °C/°F	D-2265	240/464 Min.
Base Oil Characteristics		
Viscosity @ 40°C, cSt	D-445	220
Viscosity @ 100°C, cSt	D-445	19.4
Viscosity Index:	D-2270	100
Flash Point °C/°F	D-92	248/480
Colour	Visual	White
Appearance	Visual	Smooth
Oil Separation	D-1742	1.8
Water Washout @ 175°F	D-1264	3.8
Four Ball Weld, kg	D-2596	315
Timken Four Ball Wear, mm	D-2266	0.55
Water Content %	D-95	< 0.01
Rust Rating:	D-1743	Pass

These are typical figures and do not constitute a specification.

Handling and Safety Information

For information on the safe handling and use of this product, refer to its **Material Safety Data Sheet** (MSDS), obtainable from **www.exactspecialty.com**







SECTION 1: Product Information and Company Identification

Common Name	Exact™ Aluminum Complex FG (NLGI #2) Grease
Product Code	E3005
Material Use	Food Grade Aluminum Complex Machinery
	Grease
Manufacturer	Summit Lubricants
	4080 Pearl Street Road Batavia, N.Y
	14020
In Case of Emergency	CANUTEC (613) 996-6666, collect 24 hours

SECTION 2: Composition and Information on Ingredients

Component	CAS Registry #	OSHA PEL	ACGIH TVL	Concentration, %

This material is classified as not hazardous under OSHA regulations in the United States, the WHMIS in Canada and NOM-018-STPS-2000 in Mexico

See SECTION 8 for Exposure Limits and SECTION 11 for Toxicological Data

SECTION 3: Hazards Information

Chemical Family	Complex mixture
Physical State	Semi-solid
Emergency Overview	No specific hazard
	Use with care
	Follow good industrial hygiene practices
Routes of Entry	Dermal and eye contact, inhalation, ingestion
Potential Acute Health Effects	None known
Medical Conditions Aggravated By Overexposure	Repeated or prolonged exposure is not known
	to aggravate medical conditions.
Overexposure Signs and Symptoms	Not available

See SECTION 11 for Toxicological Data

SECTION 4: First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Cold water may be used. Get medical attention should irritation occur.
Skin Contact	Remove any contaminated clothing. Wash with soap and water. Get medical attention should irritation occur.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious patient. Should large amounts be swallowed, call a physician immediately.
Note to Physician	Not available

SECTION 5: Fire Fighting Measures

Flammability	 Low hazard - combustible or burns at temperatures above flash point
Auto-Ignition Temperature	■ N/A
Flash Point (COC)	■ 248°C/480°F
Flammable Limits	Not established
Hazardous Combustion Products	Products are smoke, carbon oxides
Fire Hazard in Presence of Various Substances	 Flammable in presence of open flames, spark, static discharge and at or above flash point
Explosion Hazard in Presence of Various Substances	 Risk in Presence of Mechanical Impact: Not available
	Risk in Presence of Static Discharge: Not available
Fire Fighting Media and Instructions	Small Fire: Use dry chemical powder
	Large Fire: Use water spray, fog, or foam. Do not use water jet.
Protective Clothing (Fire)	 Fire fighters should wear positive pressure self- contained breathing apparatus (SCBA) and full turnout gear. Be sure to use MSHA/NIOSH approved respirator or equivalent
Special Remarks on Fire Hazards	 Container explosion may occur under fire conditions or where heated. Cool closed containers exposed to heat.

SECTION 6: Accidental Release Measures

Small Spill and Leak	 Absorb with an inert material and put spilled
	material into appropriate waste disposal.
Large Spill and Leak	 Absorb with an inert material and put spilled
	material into appropriate waste disposal.
	 Do not allow any potentially contaminated
	water, including rain water, runoff from fire
	fighting or spills, to enter any waterway, sewer
	or drain.

See SECTION 8 for Personal Protective Equipment and SECTION 13 for Waste Disposal

SECTION 7: Handling and Storage

Handling	Avoid breathing vapors or spray mists.
	Use with adequate ventilation.
	Avoid contact with eyes, skin and clothing.
	Always wash your hands after handling.
Storage	Proper grounding procedures should be used
	as static charge may accumulate.
	Keep containers tightly closed.
	Store in dry, cool, and well ventilated areas.
	Do not cut, weld, heat or pressurize empty
	containers.
	Do not store near open flames or sources of
	ignition.

SECTION 8: Exposure Controls and Personal Protection

Personal Protection	
Eyes	Safety glasses or goggles
Body	 Lab coat or suitable protective clothing
Respiratory	 Not required under normal and intended usage conditions
Hands	 Chemical resistant or oil impervious gloves
Feet	Shoes (as required by work place)
Protection for Large Spills	 Splash goggles, full suit, vapor respirator, boots, chemical resistant gloves
	 Self contained breathing apparatus should be used to avoid inhalation of product

Engineering Controls

- Good ventilation should be sufficient to control airborne levels
- Local exhaust is recommended to control emissions at the source
- Mechanical ventilation should be used for confined areas
- Eyewash stations and safety showers should be proximal to the workstation

Exposure Limits

ACGIH TLV (US and Canada)

Oil Mist - Severely Refined

■ TLV-TWA: 5 mg/m³

Form: Mist

Consult your local authorities for your acceptable exposure limits

SECTION 9: Physical and Chemical Properties

Physical State	Semi-solid
Appearance and Colour	White
Odour	Bland
рН	 N/A
Flash Point (COC)	■ 280°C (480°F)
Boiling/Condensation Point	- >371.1°C/700°F
Pour Point	Not available
Freezing Point	Not available
Specific Gravity	0.89 (Water = 1g/mL)
Density	7.43
Vapor Pressure	■ N/A
Vapor Density	■ N/A
% Volatility, by volume	 Negligible
Evaporation Rate	 Negligible
VOC	■ N/A
Viscosity (cSt @ 40°C)	 N/A
Solubility in Water	Not soluble

SECTION 10: Stability and Reactivity

Hazardous Polymerization	Will not occur
	dioxide.
Hazardous Decomposition Products	Fumes, smoke, carbon monoxide and carbon
Incompatibility with Various Substances	Reactive with strong oxidizing agents
Stability and Reactivity	Product is stable

SECTION 11: Toxicological Information

Toxicity Data	
Ingredient Name	Concentration
<u>None Known</u>	

SECTION 12: Ecological Information

BOD and COD	Not established
Biodegradability/OECD	Not established
Mobility	Not established
Products of Degradation	Not established
Products of Biodegradation	Not established
Special Remarks on the Products of	Not established
Biodegradation	

SECTION 13: Disposal Considerations

- Wastes should be disposed of in accordance to local, federal and state environmental control regulations.
- Incinerate waste materials whenever possible.

SECTION 14: Transport Information

Regulatory Information	UN Number	Proper Shipping Name	Class	Packing Group	Label	Additional Information
United States (DOT)	Not regulated	-	_	-	_	_
Canada (TDG)	Not regulated	-	_	_	_	-
Mexico (NOM-004-SCT2-1994)	Not regulated	-	_	-	-	-
IMDG Code	Not regulated	_	_	-	_	-
IATADGR Class	Not regulated	-	_	-	-	_

[•] NAERG (North American Emergency Response Guide): N/A

ExactTM Aluminum Complex FG Grease - Material Safety Data Sheet (MSDS) SECTION 15: Regulatory Information

United States: Federal Regulations

- **TSCA 8(b) Inventory**: All components are listed or exempt.
- SARA 302/304/311/312 Extremely Hazardous Substances: No products found.
- **SARA 302/304 Emergency Planning and Notification**: No products found.
- SARA 302/304/311/312 Hazardous Chemicals: No products found.
- SARA 311/312 MSDS Distribution Chemical Inventory Hazard Identification: No products found.
- Clean Water Act (CWA) 307: No products found.
- Clean Water Act (CWA) 311: No products found.
- Clean Air Act (CAA) 112 Accidental Release Prevention: No products found.
- Clean Air Act (CAA) 112 Regulated Flammable Substances: No products found.
- Clean Air Act (CAA) 112 Regulated Toxic Substances: No products found.

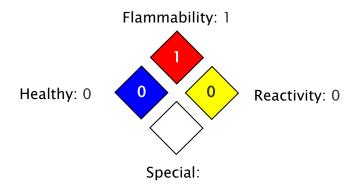
United States: State Regulations

• California Prop. 65: No products found.

Canada: WHMIS

- Not a controlled product under WHMIS (Canada)
- CEPA DSL: All components are listed or exempt.
- "This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations."

Mexico: Classification



SECTION 16: Other Information

Label Requirements

- "Use with care"
- "Use as directed"

Hazardous Material Information System (USA):

Health	0
Fire Hazard	1
Reactivity	0
Personal Protection	В

National Fire Protection Association (USA):

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Note to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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