

AMISTAR 1005 CA

TECHNICAL DATA SHEET

1. Product Description

AMISTAR 1005 CA is a lithium complex grease formulated for construction and heavy industrial equipment. The grease is designed to provide reliable lubrication and protection under heavy loads, contamination, high temperatures and high speeds.

It provides superior equipment protection in:

- Industrial manufacturing
- Food processing
- Steel mills & foundries
- Paper mills, printing & packaging
- National, state & local agencies
- Construction, mining & agriculture
- Excavation & demolition
- Utility construction
- Concrete & asphalt paving

2. Main Characteristics

- Provides protection against heavy loads, contaminants, heat and high speeds
- Tackifiers keep grease in place and help prevent wear
- Resists thickening at low temperatures
- Minimizes abrasive wear caused by dirt and dust
- Excellent water resistance
- Prevents rust and corrosion
- Wide operating temperature range
- Long-term lubrication performance

Operating temperature range

- Continuous: **-20°C to +170°C**
- Intermittent: **up to +200°C**

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3. Composition / Additive System

Component	Function / Benefit
Premium grade base oil	Highly refined base oil resists oxidation and high-temperature breakdown to maintain lubricity
Synthetic blend base oil (PAO blend)	Improves oxidation stability and high-temperature resistance
Lithium complex thickener	Performs well in high temperature and wet conditions
Rust & corrosion inhibitors	Forms protective barrier against acids, water, condensate and steam
Extreme Pressure (EP) additives	Prevents severe wear under high load conditions
Anti-wear additives	Forms lubricating film on metal surfaces and prevents cold welding
Tackifiers	Prevent squeeze-out, channeling, sling-off and contaminant ingress
Oxidation inhibitors	Extends service life by slowing oxidation and breakdown
Shock load reducers	Reduces vibration, chatter and stress during start-stop operations

4. Typical Physical Properties

Property	Value
NLGI Grade	2
Dropping Point	>250°C
Rust Test	Pass
Oil Separation (24h)	NIL
4-Ball Weld Load	>300 kg
4-Ball Wear Scar	0.47 mm
Timken OK Load	60
Copper Corrosion	1B

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5. Performance & Specifications

Meets or exceeds the following performance requirements:

US Steel Mill Specifications

- Roll Neck Grease – Req. No. 340
- Extreme Pressure Grease – Req. No. 350
- Extra Duty EP Grease – Req. No. 352
- Extreme Temperature – Req. No. 355, 370, 372
- Ball and Roller Bearing – Req. No. 371
- Mill Utility Grease – Req. No. 375

Complies with NLGI #2 lithium grease requirements and is suitable for equipment from: Allis-Chalmers, AMCA International, CMI, John Deere, Euclid, Gomaco, Gradall, Hitachi, Kawasaki, Komatsu, Kobelco, Kubota, Link-Belt, Manitowoc, Mitsubishi, Terex, Vermeer, Volvo.

6. Applications

Recommended for:

- Wheel bearings
- Trucks and trailers
- Automotive chassis lubrication points
- Various equipment exposed to shock loads requiring lithium complex grease

7. Limitations / Restrictions

Do **not** use:

- Bearings exceeding **10,000 RPM**
- Applications with continuous temperature above **204°C**