

Product Overview

CIM Ultra Journal Roller Bearing Grease is a long-service grease developed for the lubrication of roller bearings used in railroad car wheel journals. It is formulated to maintain reliable consistency under the repeated mechanical working that occurs inside roller bearing assemblies, supporting stable lubrication over extended intervals.

This product is positioned to meet the performance intent of AAR journal roller bearing grease requirements (M-942-98) for railroad bearing service.

Performance Features

- **Shear stability in service:** designed to resist excessive softening when mechanically worked in bearings (validated by high-stroke penetration style evaluation).
- **Corrosion protection:** fortified with a corrosion inhibitor package to help protect bearing surfaces in wet or aqueous conditions, including environments where saltwater exposure may occur.
- **Consistency retention:** supports longer bearing service life by helping the grease remain in grade and in place under demanding bearing conditions.

Typical Applications

Recommended for:

- Railroad car wheel journal roller bearings (journal box bearing lubrication).

Operating Temperature Range

Once in application, typical operating temperature capability is:

- **-40°C to +121°C** (equivalent to **-40°F to +250°F**).

Compatibility Guidance

CIM Ultra Journal Roller Bearing Grease is generally compatible with greases thickened with:

- calcium, calcium 12-hydroxystearate, calcium sulfonate, lithium, and lithium complex systems.

Good practice: when changing grease types, remove as much of the previous grease as possible from the application before introducing the new product.

Typical Technical Characteristics: CIM Ultra Journal Roller Bearing Grease

Property	Reference Method	Typical Result
Thickener system	(Product description)	Lithium-Calcium soap
NLGI grade	(Typical inspections)	1.5
Colour	(Typical inspections)	Amber
Worked penetration (60 strokes)	ASTM D217	305 (0.1 mm)
Worked penetration (100,000 strokes)	ASTM D217	325 (0.1 mm)
Roll stability (96 h at 82°C)	AAR M942-98 App. C	318 (penetration)
Dropping point	ASTM D2265	Min 180°C
Oxidation stability (100 h at 99°C)	ASTM D942	~5 psi
Corrosion preventive properties	ASTM D1743	Pass
Oil separation	ASTM D1742	Max 5%
Base oil viscosity @ 40°C	ASTM D445	163 cSt
Base oil viscosity @ 100°C	ASTM D445	15.5 cSt
Viscosity index	(VI calculation)	96

Storage, Handling & Safety

Store in a clean, dry area, sealed and upright. Avoid prolonged skin contact and wash with soap and water after handling.

CIM Ultra Journal Roller Bearing Grease

CIM Lubricants PTY (Ltd) - 486 Taljaard Street , Hermanstad Pretoria , South Africa P.O Box 11053 Suiderberg 0055

Technical Help Line 060 428 8103 / Customer Service 012 377 2507

www.cimlubricants.com

This data sheet and the information is believed to be accurate as of the date of printing. However, to the extent that it is permissible by law to exclude warranties and representations, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet.