

ARAPEN RB 320

RAILROAD CAR JOURNAL BEARING GREASE

December 2006



ARAPEN RB 320 railroad car journal bearing grease offers the following features and benefits:

- ◆ **Approved against AAR specification M-942-98**
- ◆ **Formulated for long service life over a wide range of climatic conditions**
- ◆ **Exhibits excellent oxidation stability, shear stability, seal compatibility, and water resistance**

Primary Applications

ARAPEN RB 320 lubricant is a long-life grease developed for the roller bearings of railroad car journals where no provision is provided for in-service relubrication. It is fully approved against Specification M-942-98 of the Association of American Railroads for Journal Roller Bearings Grease for non-field lubricated bearing applications. It is used by major manufacturers of railroad journal bearings as the factory-fill lubricant.

Performance Features

Special lubrication protection

Operating in severe service under a wide range of weather and temperature conditions, railroad car journal roller bearings require special lubrication protection. ARAPEN RB 320 grease is designed to provide such protection. It is formulated with high quality components proven by experience to provide the necessary lubricating properties.

Oxidation stability

ARAPEN RB 320 grease has the high oxidation stability required to maintain good lubrication throughout extended periods of service or storage. It is highly resistant to chemical deterioration that might otherwise produce acids or deposits that are detrimental to long bearing life.

Shear stability

ARAPEN RB 320 grease has exceptional ability to withstand shear, i.e. retain consistency after prolonged working, as in the churning action of an anti-friction bearing. High resistance to the

effects of shear helps ARAPEN RB 320 grease remain in the bearing and maintain a full protective lubricating film until the next shop lubrication.

Seal compatibility

Interaction of grease with elastomeric seal materials should be controlled to minimize deterioration of the bearing seals. ARAPEN RB 320 grease has been shown to have little effect on these materials, thus maintaining good seal performance, a significant requirement for shop-to-shop wheel service.

Resistance to the effects of water

Largely because of its special calcium-lithium-soap base, ARAPEN RB 320 grease has, in addition to good heat resistance, a high resistance to structural change in the presence of water. Better retention of grease structure means

safer lubrication under all climatic conditions. ARAPEN RB 320 grease is also inhibited to give protection against rusting.

Precautions

ARAPEN RB 320 grease is manufactured from quality petroleum base stocks, blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact with the skin, splashing into the eyes, ingestion, or vapour inhalation. Please refer to the Esso Material Safety Data Sheet for further information.

Note: This product is NOT controlled under the Canadian WHMIS legislation.

Typical Properties

	ARAPEN RB 320
Colour	Light amber
Penetration, 60-stroke worked at 25°C, mm/10	305
Structural Stability, change in worked penetration after 100,000 double strokes, mm/10	+20
Dropping Point, °C	180
Bomb oxidation stability, pressure drop in 100 hr, kPa (psi)	20.7 (3)
EMCOR corrosion, distilled water	0,0
Base Oil Viscosity cSt at 100°C	14.7
Elevated Temperature Roll Stability at 82°C and 96 hours, 60-stroke worked penetration at 25°C, mm/10	325

The values shown here are representative of current production. Some are controlled by manufacturing specifications, while others are not. All may vary within modest ranges.