



SHELL ALVANIA[®] GREASE DTR

Premium quality, long-life grease
for railroad axle journal bearings

Product Description

Shell Alvania[®] Grease DTR is a long life grease specifically formulated to meet the Association of American Railroads (AAR) Specification 942-98. It features a lithium/calcium mixed soap thickener in an all HVI paraffinic mineral base oil system combined with a high performance additive package. Shell Alvania[®] Grease DTR is also formulated to meet Timken's standard for Dynamic Mechanical Stability. It gives exceptional mechanical stability, even at elevated temperatures.

The high quality additive system is designed specifically for the grease to be used in railroad axle journal roller bearings, which are designed not to be lubricated in the field, including those in the newer, more heavily loaded double stacked container cars. The additive system also promotes excellent protection against oxidation.

Applications

- mainly railroad axle journal bearings
- bearings subjected to heavy loads without the need for frequent relubrication or concern with mechanical stability breakdown

Features/Benefits

- excellent mechanical stability over a wide range of temperatures
- excellent protection against oxidation
- endurance at elevated temperatures for long periods
- passing performance in the more severe Roll Stability Test run at an elevated temperature of 180°F for 96 hours
- passing performance in the Timken Dynamic Mechanical Stability test
- AAR approved since 1993

Approvals and Recommendations

- AAR Specification M-942-98 for interchange services

Typical Properties of Shell Alvania[®] Grease DTR

	Test Method	AAR Specification	
Product Code		M-942-98	71037
Base Oil Viscosity @ 100°C, cSt	D 445	14.0 cSt min	16.2
Penetration, dmm Worked, 60X Worked, 10,000X, % Change	D217	265-385 +/-25	303 +5
Dropping Point, °F	Mettler	325 min	392
Flash Point, °F	D 92	340 min	473
Corrosion Resistance	D 6138	0	0
Moisture wt%	D 128	0.10 max	Trace
Oxidation Stability Pressure Drop @ 100 hrs, psi Pressure Drop @ 500 hrs, psi	D 942	10 max 25 max	4 10
Structural Stability Penetration, dmm @ 77°F after 100,000 strokes	D 217	+/- 25	+5
Dynamic Mechanical Stability, dmm @ 77°F	Timken	+/-15	+1/-5
Elevated Temperature Roll Stability @ 180°F, Penetration, dmm @ 77°F	D 1831	290-340	320

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.