



Product Data Sheet

TIMKEN® PREMIUM RAILROAD GREASE Lubricating Grease

Part Numbers

GR117P	35 lb pail
GR117K	120 lb keg
GR117D	400 lb drum

Product Description

TIMKEN PREMIUM GREASE is a long-life grease specifically intended for the lubrication of roller bearings used in railroad car wheel journals. It is fully approved against specification M-942-98 of the Association of American Railroads for Journal Roller Bearing Grease.

TIMKEN PREMIUM GREASE has an exceptional ability to maintain its consistency when subjected to a mechanical shear such as that encountered in a roller bearing. The excellent mechanical shear stability was demonstrated in the 100,000-stroke penetration test and the PREMIUM GREASE demonstrated a very small amount of consistency softening after the completion of the test (see results in typical inspections table below).

TIMKEN PREMIUM GREASE is fortified with a high performance corrosion inhibitor to protect bearing surfaces from damage in corrosive aqueous environments. By reducing bearing corrosion damage, the average service interval between bearing re-builds can be lengthened. The corrosion package used in TIMKEN PREMIUM GREASE also offers good protection in the presence of salt water.

Product Application

TIMKEN Premium All Purpose Industrial Grease has an operating temperature range of - 40° F to + 250° F (- 40° C to + 121° C) once in the application.

Compatibility of Grease

TIMKEN Premium Railroad Grease is generally compatible with calcium, calcium 12-OH stearate, calcium sulfonate, lithium and lithium complex thickened greases. Timken recommends that all grease be removed from the application prior to changing greases.

Handling and Storage

Store in a dry area away from heat and open flame. See Material Safety Data Sheet for more information.

Shipping and Disposal Information

Follow governmental regulations pertaining to the shipping and disposal of this product. Do not reuse container after use. See Material Safety Data Sheet for more information.

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Product Specifications – Typical

Color	Amber
NLGI Grade	No.1.5
Thickener Type	Lithium-Calcium Soap
Penetration, Worked 60 Strokes, ASTM D 217	305
Penetration Change, 100000 Strokes, ASTM D 217	325
Shell Roll Stability, AAR M942-98 Appendix C, 96 hrs.,82°C, Pen.	318
Dropping Point, ASTM D 2265	180° C Min.
Oxidation Stability, ASTM D 942, 100 hours at 99° C	5 psi
Corrosion Preventive Properties, ASTM D 1743	Pass
Oil Separation, ASTM D 1742	5 % Max.
Base Fluid Properties:	
Viscosity @ 100° C, ASTM D 445, Centistokes	15.5
Viscosity @ 40° C, ASTM D 445, Centistokes	163
Viscosity Index	96

Date: November 18, 2008

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