



Product Data Sheet

TIMKEN® SYNTHETIC INDUSTRIAL LC-1.5 GREASE Lubricating Grease

Part Numbers

GR232C	400 g (14 oz) cartridge
GR232P	16 kg (35.3 lb) pail
GR232K	55 kg (121.3 lb) keg
GR232D	180 kg (400 lb) drum

Product Description and Intended Use

TIMKEN Synthetic Industrial Grease is an NLGI No. 1.5 multi-purpose lithium complex lubricating grease for medium to high temperature applications. This product contains extreme pressure and antiwear additives as well as corrosion inhibitors to provide protection in a variety of industrial, construction, agriculture and automotive applications. TIMKEN Synthetic Industrial Grease is especially well-suited for wet end paper machine bearings, press section bearings, and felt roll and calendar bearings.

Product Application

TIMKEN Synthetic Industrial Grease can be applied from ambient temperatures of - 40° F to + 356° F (- 40° C to + 180° C) depending on lubrication system design and method of application. TIMKEN Synthetic Industrial Grease has an operating temperature range of - 50° F to + 356° F (- 46° C to + 180° C) once in the application. Follow equipment manufacturer's recommendations concerning lubrication frequencies.

Compatibility of Grease

TIMKEN Synthetic Industrial 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. Then the lubrication interval is reduced by half for the first lubrication cycle before resuming the normal lubrication interval.

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	Red
NLGI Grade	No. 1.5
Thickener Type	Lithium Complex
Penetration, Unworked, ASTM D 217	290-320
Penetration, Worked 60 Strokes, ASTM D 217	290-320
Penetration Change, 100000 Strokes, ASTM D 217	- 5 to +15%
Roll Stability, ASTM D 1831, 2 hours, 25° C, Change	+/- 10%
Wheel Bearing, ASTM D 1263	5 Grams Max.
Dropping Point, ASTM D 2265	250° C Min.
Oxidation Stability, ASTM D 942, 100 hours at 99° C	2 psi
Four-Ball Wear, ASTM D 2266, 40 kg, 1200 RPM, 75° C, Scar mm	0.60 Max.
Four-Ball EP, Weld Point, ASTM D 2596, kgf	250 Min.
Timken OK Load, ASTM D 2509, Pounds	55
Copper Strip Corrosion, ASTM D 4048	1b
Corrosion Preventive Properties, ASTM D 1743	Pass
Oil Separation, ASTM D 1742	5 % Max.
Water Washout, ASTM D 1264, 1 hour, 79° C, Loss	5 %
Base Fluid Properties:	
Viscosity @ 100° C, ASTM D 445, Centistokes	37 - 45
Viscosity @ 40° C, ASTM D 445, Centistokes	414 - 506
Viscosity Index	150
Pour Point, ASTM D 97, Max.	- 30°C
Flash Point, ASTM D 92, Min.	280° C

Date: November 18, 2008

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