



Product Data Sheet

TIMKEN® FOOD SAFE GREASE

Lubricating Grease

Part Numbers

GR231C	400 g (14 oz) cartridge
GR231F	1 kg (2.2 lb) tub
GR231P	16 kg (35.3 lb) pail
GR231K	55 kg (121.3 lb) keg
GR231D	180 kg (400 lb) drum

Product Description and Intended Use

TIMKEN Food Safe Grease is an NLGI No. 2, aluminum complex thickened lubricating grease designed for food grade applications. The synthetic blend fluids provide for improved low and high temperature performance compared with typical food grade greases. This product contains extreme pressure and antiwear additives as well as corrosion and oxidation inhibitors. TIMKEN Food Safe Grease is formulated in compliance with CFR, Title 21, Section 178.3570 and meets the requirements for an NSF H1 (formerly USDA H1) lubricant where there is possibility of incidental food contact. Timken Food Safe grease is also certified with the Canadian Food Inspection Agency for incidental food contact.

Product Application

TIMKEN Food Safe Grease can be applied from ambient temperatures of - 18° F to + 300° F (- 28° C to + 149° C) depending on lubrication system design and method of application. TIMKEN Food Safe Grease has an operating temperature range of - 40° F to + 300° F (- 40° C to + 149° C) once in the application. Follow equipment manufacturer's recommendations concerning lubrication frequencies.

Compatibility of Grease

TIMKEN Food Safe Grease is generally compatible with aluminum 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.

TIMKEN® FOOD SAFE GREASE

Product Specifications – Typical

Color	White
NLGI Grade	No. 2
Thickener Type	Aluminum Complex
Penetration, Worked 60 Strokes, ASTM D 217	265-295
Dropping Point, ASTM D 2265	260° C Min.
Oxidation Stability, ASTM D 942, 100 hours at 99° C	5 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	315
Timken OK Load, ASTM D 2509, Pounds	40
Copper Strip Corrosion, ASTM D 4048	1b
Corrosion Preventive Properties, ASTM D 1743	Pass
Oil Separation, ASTM D 1742	2 %
Water Washout, ASTM D 1264, 1 hour, 79° C, Loss	5 % Max.
Base Fluid Properties:	
Viscosity @ 100° C, ASTM D 445, Centistokes	10 - 14
Viscosity @ 40° C, ASTM D 445, Centistokes	90 - 110
Viscosity Index	110
Pour Point, ASTM D 97	- 25°C
Flash Point, ASTM D 92	225° C

Date: November, 18, 2008

Product: TIMKEN Food Safe Grease