

Product	Sinopec High Temperature Grease for Food Machines
Summary	Product description Sinopec High Temperature Grease for Food Machines is a non-toxic grease, formulated with an aluminium complex soap thickener, food-grade synthetic fluid and food-grade additives. It is approved by the National Sanitation Foundation (NSF) as an H1 food-grade lubricant for use in food processing environments where there is some possibility of incidental food contact.

Applications

Sinopec High Temperature Grease for Food Machines is suitable for use in:

- All lubrication points in the production, transportation and packaging areas in the food, beverage, pharmaceutical, toy and feed industries where there is some possibility of incidental food contact.
- General rotating equipment lubrication, conveyor bearings, anti-friction roller bearings under heavy or shock loading, linkages and slides, and joints that require an NSF H1 grade grease.
- Applications where the temperature range is from -40°C to $+180^{\circ}\text{C}$.

Features and benefits

- Approved by the NSF as an H1 food-grade lubricant for use in food processing environments where there is some possibility of incidental food contact; all components meet the strict criteria of the US FDA.
- Does not contain heavy metals, nitrites or other chemicals that may be harmful to human health or to the environment.
- The aluminium complex soap thickener ensures a high dropping point, which means that the grease can be used at high temperatures in severe service applications (from -40°C to $+180^{\circ}\text{C}$), and also confers excellent mechanical stability so that the grease structure does not break down in service.
- Excellent water resistance ensures the grease stays in place and is not washed or sprayed off in wet conditions, reducing the need for frequent re-application.
- Synthetic base fluid ensures good operation at low and high temperatures.
- Provides good corrosion protection and oxidation stability.
- Fully compatible with common elastomeric materials used as seals.

Product Data Sheet

Typical data

Sinopec High Temperature Grease for Food Machines	
NLGI grade	2
Appearance, visual	Smooth, white, buttery
Thickener type	Aluminium complex
Base fluid type	Synthetic
Kinematic viscosity, ASTM D 445	
cSt @ 100°C (range)	11–13
Cone penetration, ASTM D 217	
W×60, mm ⁻¹	278
Dropping point, °C, ASTM D 2265	301
Water washout, 1 h @ 38°C, %, ASTM D 1264	0
Evaporation loss, 22 h @ 99°C, %, ASTM D 972	0.09
Oil separation, 24 h @ 100°C, %, FTMS 791C-321.3	2.8
Four ball wear, 60 min @ 392 N, mm, ASTM D 2266	0.66
Elastomer compatibility (72 h @ 70°C) SBR, ASTM D 4289	
Mass change, %	2.46
Volume change, %	4.54
Hardness change, Durometer-A	-3

These data are given as an indication of typical values and not as exact specifications.

Industry and OEM specifications

Sinopec High Temperature Grease for Food Machines meets the performance requirements of the following industry specifications:	
Sinopec	Q/SH303 544-2009
Sinopec High Temperature Grease for Food Machines holds the following formal industry approvals/licences:	
National Sanitation Foundation	NSF H1

Product Data Sheet

Accuracy of information

Data provided in this PDS is typical and subject to change as a result of continuing product research and development. The information given was correct at the time of printing. The typical values given are subject to variations in the testing procedures and the manufacturing process may also result in slight variations. Sinopec guarantees that its lubricants meet any industry and OEM specifications referred to on this data sheet.

Sinopec cannot be held responsible for any deterioration in the product due to incorrect storage or handling. Information on best practice is available from your local distributor.

Product and environmental safety

This product should not cause any health problems when used in the applications suggested and when the guidance provided in the Material Safety Data Sheet (MSDS) is followed. Please consult the MSDS for more detailed advice on handling; MSDSs are available from your local distributor. Do not use the product in applications other than those suggested.

As with all products, please take care to avoid environmental contamination when disposing of this product. Used oil should be sent for reclamation/recycling or, if not possible, must be disposed of according to relevant government/authority regulations.

The SINOPEC trademark is registered and protected in Australia.

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