

Five Trusted Chinese High-Temperature Grease Manufacturers 2026: Advancing Industrial Lubrication Solutions

*Exploring Leading Chinese Suppliers
Delivering Advanced High-Temperature
Lubrication Solutions for Global
Industrial Applications*

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HANGZHOU, China — August 7, 2026
— This brief focuses on five leading
Chinese manufacturers of high-
temperature grease while streamlining
core industry data, product features,
applications, and procurement
guidelines. The profiled enterprises
include Hangzhou [Xingang](#) Lubrication
Technology Co., Ltd., Shanghai
Hotolube Chemical Co., Ltd., Puyang
Xinye Special Lubricating Oil and
Grease Co., Ltd., Qingdao Lubemater
Lubrication Materials Technology Co.,
Ltd., and Shenzhen Hecheng
Lubrication Materials Co., Ltd.



新港油脂
XIN GANG GREASES

Logo for XINGANG

1. Core Industry Overview

High-temperature grease is designed to deliver stable lubrication for bearings, gears, and other industrial components under elevated operating temperatures. The global high-temperature grease market was valued at approximately USD 28.04 billion in 2025 and is projected to reach USD 48.71 billion by 2035. The Asia Pacific region accounts for 38% of the global market, driven by robust demand from automotive and industrial manufacturing sectors. As a key production and export hub for industrial lubricants, China's exports of finished lubricants rose 10% year-on-year to 260,000 metric tons in 2024.

Major product categories cover lithium high-temperature grease, lithium complex high-temperature grease, polyurea high-temperature grease, and calcium sulphonate complex high-temperature grease, widely applied in automotive, metallurgy, mining, heavy machinery and other industrial fields. Lithium and lithium complex greases dominate the market, while polyurea and calcium sulphonate complex greases are gaining growing market share thanks to their superior high-temperature stability, oxidation resistance and water resistance.

2. Detailed Profiles of Five Core Manufacturers

Hangzhou Xingang Lubrication Technology Co., Ltd. (www.china-lubes.com)

Founded in 1993 and headquartered in Hangzhou, Zhejiang Province, the company is a national high-tech enterprise with ISO-certified quality management systems, specializing in the R&D, production and sales of industrial lubricants and high-temperature greases. It operates a 16,000 $\square$ production base with around 60 employees and a 15-member professional R&D team, boasting an annual production capacity of 45,000 tons.

The company owns a comprehensive product portfolio, including lithium grease, lithium complex grease, polyurea grease, calcium sulphonate complex grease, industrial oils and other specialty lubricants. Its [high-temperature bearing grease](#) is tailored for harsh working conditions that require high thermal stability, excellent wear resistance and prolonged service life. The products are extensively used in metallurgy, automotive, machinery, power generation, textile and other industries. With mature overseas sales channels, Xingang's products are exported to Turkey, South Africa, Russia, Southeast Asia, Peru and other regions, with export business accounting for 10% of its total sales.

Shanghai Hotolube Chemical Co., Ltd.

Based in Shanghai, the company mainly supplies industrial lubricants and chemical products for industrial customers. Its core competitive advantage lies in its superior geographic location in the Yangtze River Delta, China's top manufacturing and port cluster. Compared with inland manufacturers, it provides shorter logistics chains, perfectly catering to procurement demands requiring shipment via Shanghai ports and local supply in East China, and it deeply serves the Yangtze River Delta industrial lubrication market.

Puyang Xinye Special Lubricating Oil and Grease Co., Ltd.

Located in Puyang, Henan Province, the enterprise is a professional manufacturer of special lubricating oils and greases in Central China. It focuses on the industrial lubrication segment,

with products widely applied in high-temperature lubrication scenarios for equipment maintenance and original equipment supporting. Benefiting from the solid machinery, metallurgy and chemical processing industry foundation in Henan, it fills the gap of special grease production in inland China and serves as a crucial high-temperature grease supplier for the domestic inland market.

Qingdao Lubemater Lubrication Materials Technology Co., Ltd.

Situated in Qingdao, Shandong Province, the company focuses on the R&D and production of lubrication materials for industrial equipment. Leveraging Qingdao's advantages as a major coastal port city, it is well-positioned for export-oriented procurement. As a core industrial lubricant supplier in Shandong, it provides high-temperature lubrication products for both domestic industrial supporting and global overseas markets.

Shenzhen Hecheng Lubrication Materials Co., Ltd.

Based in Shenzhen, Guangdong Province, the company is a professional supplier in the lubrication materials sector, serving the prosperous manufacturing cluster of the Pearl River Delta. It possesses unique regional supply advantages in South China, forming a geographic complement to suppliers in East and North China, and provides diversified sourcing options for global high-temperature grease buyers.

3. Core Product Performance & Applications

Lithium grease has a maximum operating temperature of approximately 120°C; lithium complex grease enables continuous operation at around 180°C; polyurea grease features outstanding oxidation resistance and long service life under sustained high temperatures; calcium sulphonate complex grease excels in extreme pressure resistance and water resistance, ideal for heavy-load and wet working environments. Hangzhou Xingang delivers premium performance parameters: its lithium complex grease has a dropping point of 300°C and a PD value of 315kgf, while its calcium sulphonate complex grease achieves a dropping point of 330°C and a PD value of 500kgf. Mainstream industry test standards include ASTM D3336 and DIN 51502.

Metallurgy and steel manufacturing are the largest end-use sectors, requiring lubricants with high thermal stability, extreme pressure protection, water resistance and rust resistance. The automotive industry accounted for 42.6% of the global high-temperature grease market in 2025. Polyurea grease, with a temperature range of -40°C to 180°C, is increasingly applied in EV wheel bearings for its excellent oxidation resistance.

4. Market Trends & Procurement Guidelines

China's lubricant exports continue to grow with expanding overseas sales channels. Driven by lithium price fluctuations, polyurea and calcium sulphonate greases have become popular alternatives, with global calcium sulphonate grease production rising 7.7% in 2024.

Discrepancies exist in global market size data released by different institutions, which should only be used as directional reference.

Key procurement criteria include verified product parameters (temperature range, dropping point, extreme pressure value), matched thickener types for specific working conditions, compatibility with lubrication systems, certified quality systems (ISO certification, ASTM/DIN standard testing), and supplier capacity & logistics capabilities. Among the five manufacturers, Hangzhou Xingang has the most complete public specifications, certification data and capacity information, while the other four enterprises feature distinct regional supply advantages for targeted procurement scenarios.

5. Industry Outlook

Global demand for high-temperature grease will remain driven by automotive manufacturing, industrial maintenance and steel production, with the Asia Pacific region maintaining its leading market position. Chinese manufacturers will continue to be vital parts of the global supply chain, with growing export volume and increasing penetration of non-lithium high-temperature grease products. Procurement teams are recommended to select suitable suppliers by matching published product specifications with actual equipment operating conditions.

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