



SMOOTHER WORLD BETTER LIFE

Technical Data Sheet

DBA High Temperature and High Speed Grease



Product Introduction

DBA High-temperature High-speed Grease is a high-performance polyurea grease with excellent heat resistance, high-speed stability, wear resistance and oxidation resistance. Featuring stable performance and long service life, it is specially formulated for continuous harsh operating conditions of high-speed motors and high-temperature bearings, effectively reducing equipment wear and preventing high-temperature failure for long-term industrial lubrication.

Examples of Application

Suitable for high-speed motors and high-temperature bearings, ideal for 24-hour continuous high-speed and high-temperature industrial equipment.

- Core Application: High-speed motors, servo motors and frequency conversion motor spindle bearings
- Applicable Equipment: High-speed fans, centrifugal equipment, precision machine tool bearings and high-temperature conveying bearings
- Working Conditions: Continuous high temperature, ultra-high speed, non-stop operation, low noise and long service life scenarios

Features and benefits

- High Temperature Resistance: Low volatilization and less carbon deposition at high temperature, preventing bearing jamming and seizure for stable long-term operation.
- Excellent Anti-wear & Load Capacity: Superior extreme pressure and anti-friction performance, resisting high-speed impact load to reduce bearing wear, heat and abnormal noise.
- High-speed Stability: Stable grease structure with good shear and centrifugal resistance, no grease throwing or caking under ultra-high speed.
- Long Life & Low Noise: Fine texture ensures low operating noise and outstanding oxidation resistance, extending equipment service cycle.

TESTING ITEMS	TYPICAL DATA	TEST STANDARD
Appearance	Smooth and uniform paste, no particles or impurities	Visual Inspection
NLGI Grade	2	ASTM D217
60 Stroke Worked Penetration (25°C), 0.1mm	282	ASTM D217
Dropping Point, °C	278	ASTM D2265
Kinematic Viscosity @40°C, mm²/s	96.8	ASTM D445
Kinematic Viscosity @100°C, mm²/s	14.9	ASTM D445
Viscosity Index	126	ASTM D2270
Four-ball Welding Load (PB), N	920	ASTM D2596
Four-ball Wear Scar Diameter (PD), mm	0.42	ASTM D2266
Oil Separation (100°C/24h), wt%	2.1	ASTM D6184
Oxidation Stability (99°C/100h), Pressure Drop, kPa	22	ASTM D942
Copper Corrosion (100°C/24h)	1b (No Corrosion)	ASTM D130

* Instructions for use

- Do not mix with other types of greases to avoid performance deterioration and delamination.
- Clean old grease and impurities thoroughly before refilling to ensure lubrication stability.
- Designed for high-speed continuous operation; pre-test is required for low-speed heavy impact conditions.