



Arcanol LOAD400 Bearing Grease
Engineered to sustain motion

We pioneer motion

SCHAEFFLER

Arcanol LOAD400 overview

Schaeffler Arcanol LOAD400 is a high-performance grease specifically developed for applications with heavy loads and low speeds. Thanks to its exceptional load-carrying capacity, it provides excellent wear protection and corrosion resistance, thereby extending the service life of rolling and plain bearings.

Arcanol LOAD400 excels in providing outstanding protection against downtime damage, even under vibrations and shock loads. In addition to ensuring very good start-up performance at low temperatures, Arcanol LOAD400 is also suitable for vertical shafts.

Arcanol LOAD400:

- Provides up to three times better wear protection than the industry standard requires
- Doubles grease service life at higher operating temperatures
- Reliably protects the bearing and its lubricant film, even under the influence of moisture

Arcanol LOAD400 is suitable for a wide range of applications, such as:



Features and benefits

Outstanding load capacity

Arcanol LOAD400 can establish a reliable lubricant film even under the harshest conditions. This enables it to handle extreme loads, making it ideal for heavy-duty applications.

Maximum wear protection

Arcanol rolling bearing greases contain special anti-wear and extreme pressure additives (AW and EP additives) that bond strongly to metal surfaces due to their polarity, forming thin protective layers on the friction partners. This enables the grease to provide effective protection against wear.

High corrosion resistance

Arcanol greases are formulated with corrosion inhibitors. These create a protective film on metal surfaces, thereby minimizing the risk of rust and other harmful effects.

Excellent water resistance

Arcanol LOAD400 is resistant to the effects of water. This ensures that the grease collar is not washed away from the surfaces. As a result, consistent protection is provided – even when water is present.

Exceptional temperature resistance

Viscosity index (VI) improves increase the viscosity index of the base oil in the grease, making it less sensitiveto temperature changes and enhancing its lubrication performance. This ensures stable lubrication, even during extreme temperature fluctuations.

Outstanding mechanical stability of thickener

Arcanol LOAD400 contains an exceptionally stable thickener. This stability prevents the product from significantly softening or leaking, even under mechanical stress or in rolling bearings with line contact.

Technical details

Features	Value	Tested according to
Operating temperature range	-40 to 130 °C	DIN 51825/ Schaeffler Spec.
Continuous limit temperature	80 °C	
Density	0.93 kg/dm ³	
Thickener	Lithium/calcium	
Base oil type	Mineral oil	
Base oil viscosity ¹ at 40 °C	400 mm ² /s	DIN 51562-1
at 100 °C	25 mm ² /s	DIN 51562-1
Worked penetration	265-295 mm	DIN ISO 2137
NLGI-Grade	2	DIN ISO 2137
Dropping point	≥ 170 °C	DIN 51818
Behavior towards water	≤ 1-90 Assess.-Level	DIN 51807-1
Corrosion protection (Emcor)	≤ 0/0 Corr.-Rating	DIN 51802
Corrosion protection (Emcor) at 1% NaCl	≤ 0/1 Corr.-Rating	
Copper corrosion after 24h/120 °C	≤ 1 Corr.-Rating	DIN 51811
FE8² test runs for rolling element wear, 500-hour runtime without failure		
536048 – 75/80 RT	vWk50 = 1 mg	DIN 51819
FE9 test runs for grease service life		
B/1500/6000-130	F50 = 376 h No failure < 100 h	DIN 51821-02

Ball bearings and cylindrical roller bearings have a speed rating limit n*dm of 400,000 mm/min, while other roller bearings³ have a limit of 200,000 mm/min.

¹Base oil viscosity: A measure of load-carrying capacity, friction and wear behavior, and flow characteristics

²FE8 test rig: The excellent low-temperature startup behavior and wear protection properties were both verified using an FE8 low-temperature test (536048 75-50-10).

³ Not suitable for axial cylindrical roller bearings and axial spherical roller bearings

Available units	SAP-No.	Designation
250-g-tube	–	–
400-g-cartridge	019143818-0000-11	ARCANOL-LOAD400-400G#K
1-kg-can	038652102-0000-10	ARCANOL-LOAD400-1KG#K
5-kg-bucket	019143834-0000-10	ARCANOL-LOAD400-5KG#K
12,5-kg-bucket	069455740-0000-10	ARCANOL-LOAD400-12,5KG#S
25-kg-bucket	019143800-0000-10	ARCANOL-LOAD400-25KG#K
50-kg-bucket	019143826-0000-10	ARCANOL-LOAD400-50KG#K
180-kg-drum	019143788-0000-10	ARCANOL-LOAD400-180KG#K



Thanks to our rigorous quality assessments and control protocols, all Arcanol lubricants are backed by a 60-month limited warranty from the filling date. For more details, please consult your Schaeffler contact person.

Know how and when to lubricate –Free and easy with Schaeffler's Grease App



Arcanol LOAD460 is suitable for use in single-point and multi-point lubrication systems. An overview of our lubricators is available here:



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