



## Arcanol LOAD1000 Bearing Grease

Engineered to sustain motion

We pioneer motion

**SCHAEFFLER**

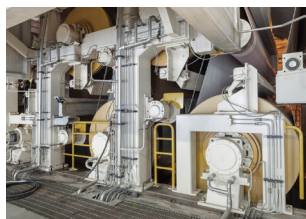
# Arcanol LOAD1000 overview

Renowned for its excellent water resistance and outstanding corrosion protection, Arcanol LOAD1000 is a long-lasting lubricating grease with extreme pressure (EW) and anti-wear (AW) additives. It was specifically engineered to lubricate rolling and plain bearings across a wide temperature range, particularly under high to very high loads.

Arcanol LOAD1000:

- Provides up to 3x better wear protection than required by industry standards
- Doubles the grease service life at higher operating temperatures
- Extends bearing life by up to 10%, thanks to optimized lubricating grease performance
- Reduces grease consumption by up to 9% compared to other heavy-duty greases in the market

Arcanol LOAD1000 is suitable for a wide range of applications, such as:



## Paper

Main bearings of pulp and dewatering presses



## Steel

Main bearings of slab sizing presses



## Mining and Cement

Main bearings of roller presses, crushers and vibrating screens



## Steel

Converter bearings

## Features and benefits:

### Excellent load-carrying capacity

Arcanol LOAD1000 can establish a reliable lubricating film even under the harshest conditions. This enables it to handle extreme loads and to be resistant to shock loads.

### Maximum wear protection

Arcanol rolling bearing greases contain special 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 LOAD1000 is resistant to the effects of water. This ensures the grease collar is not washed away from the surfaces. As a result, consistent protection is provided, even in the presence of water.

### High base oil viscosity

Arcanol LOAD1000's high base oil viscosity of 1000 mm<sup>2</sup>/s significantly contributes to the formation of a load-bearing lubricating film, even under heavy loads and line contact conditions.

### Outstanding mechanical stability of thickener

Arcanol LOAD1000 contains a particularly 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	-20 bis 130 °C	DIN 51825/ Schaeffler Spec.
Continuous limit temperature	80 °C	
Density	0.93 kg/dm <sup>3</sup>	
Thickener	Lithium/Calcium	
Base oil type	Mineral oil	
Base oil viscosity <sup>1</sup> at 40 °C	1000 mm <sup>2</sup> /s	DIN 51562-1
at 100 °C	38 mm <sup>2</sup> /s	DIN 51562-1
Worked penetration	265-295 mm	DIN ISO 2137
NLGI-Grade	2	DIN ISO 2137
Dropping point	≥ 180 °C	DIN 51818
Behavior towards water	1-90 Assess.-Level	DIN 51807-1
Corrosion protection (Emcor)	≤ 0/0 Corr.-Rating	DIN 51802
Copper corrosion after 24h/100 °C	≤ 2 Corr.-Rating	DIN 51811

## FE8 test run for rolling element wear under mixed friction, 500-hour runtime without failure

536048-75/80-80 tapered roller bearing	vWk50 = 6mg (DIN standard ≤ 35mg)	DIN 51819
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## FE9 test run grease service life

A/1500/6000-140	F50 = 182 h no failure < 50 h	DIN 51821-02
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Ball bearings and cylindrical roller bearings have a speed rating limit  $n \cdot dm$  of 300,000 mm/min, while other roller bearings<sup>2</sup> have a limit of 200,000 mm/min.

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

<sup>2</sup> Not suitable for axial cylindrical roller bearings and axial spherical roller bearings



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



Available units	SAP-No.	Designation
5-kg-bucket	019003463-0000-10	ARCANOL-LOAD1000-5KG#K
25-kg-bucket	019143729-0000-10	ARCANOL-LOAD1000-25KG#K
50-kg-bucket	066624860-0000-10	ARCANOL-LOAD1000-50KG#S
180-kg-drum	019143710-0000-10	ARCANOL-LOAD1000-180KG#K

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