

# FAG Rolling Bearing Grease

## Arcanol LOAD460

Properties, applications: Wind energy main shaft bearings, especially for bearings with pin-cage and other large bearings, high loads, low starting temperatures, wide temperature range, excellent water resistance and corrosion protection, False Brinelling, vibrations

Characteristics	Unit	Value	Test method
Classification:		KP1K-30	DIN 51825
Temperature range:	[°C]	-30 to 130	DIN 51825
Longtime limit temperature:	[°C]	80	
Density:	[kg/dm³]	0,93	
Specifications:			
Thickener:		lithium/calcium	
Type of base oil:		mineral oil	
Base oil viscosity at 40 °C:	[mm²/s]	≥ 400	DIN 51562 - 1
Worked penetration:	[0,1 mm]	310-340	DIN ISO 2137
NLGI grade:		1	DIN 51518
Drop point:	[°C]	≥ 170	DIN ISO 2176
Water resistance:	[Range]	≤ 1-90	DIN 51807 - 1
Corrosion Emcor Test:	[grad]	0/0	DIN 51802
0,5 % NaCl:	[grad]	0/0	
Copper corrosion after 24 h/120 °C:	[Corr.Grad]	1	DIN 51811
FE8 tests run wear behaviour		Running time 500 hours, no failure	
536048 - 75/80-RT	[mg]	vWk50 ≤ 35 mg	DIN 51819
536050MP - 7,5/80/RT	[mg]	vWk50 ≤ 35 mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-130	[h]	F50 ≥ 200 h	DIN 51821-02
	[h]	no failure < 100 h	
Low temperature - start-up torque FE8			
		Hold time [h] Speed [rpm] Load [kN]	Start / Steady
-40 °C tapered roller bearing	24	75 50	≤ 300 / ≤ 80 [Nm]
Low temperature torque			
-30 °C Start / Steady-state	[Nmm]	≤ 1000 /	IP 186
<b>Speed range:</b>	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	[mm/min]	400.000	200.000

\*) not cylindrical roller thrust bearings and spherical roller thrust bearings

This copy is not taken into account by the updating service.

The data are based on actual knowledge at the time of print and refer to the respective test method. Guaranteed properties or warranties cannot be taken over.

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