

FAG Rolling Bearing Grease

Arcanol LOAD150

Properties, applications: Bearing grease for moderate to high loads, high temperatures, especially for line contact

Characteristics	Value	Unit	Test method
Temperature range:	-20 to 140	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature	95	°C	
Density:	0.9	kg/dm ³	
Specifications:			
Thickener:	lithium complex		
Type of base oil:	mineral oil		
Base oil viscosity	at 40 °C:	160	mm ² /s
	at 100 °C:	15.5	mm ² /s
Worked penetration:	265-295	0.1 mm	DIN ISO 2137
NLGI grade:	2		DIN 51518
Drop point:	≥ 250	°C	DIN ISO 2176
Water resistance:	1-90	Range	DIN 51807 - 1
Corrosion Emcor Test:	≤ 0/0	Corr. Grade	DIN 51802
	with 0.5 % NaCl:	Corr. Grade	
Copper corrosion after 24 h/100 °C:	≤ 1	Corr. Grade	DIN 51811
FE8 tests run wear behaviour, Running time 500 hours without failure			
536048 - 750/30-RT	vWk50 ≤ 20	mg	DIN 51819
536048 - 75/80-RT	vWk50 ≤ 50	mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-140	F50 ≥ 100	h	DIN 51821-02
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	mm/min	500,000	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.

FAG Rolling Bearing Grease

Arcanol LOAD \emptyset

Properties, applications: Rolling bearing grease for universal applications, moderate to high loads, wide temperature range, good water resistance

Characteristics	Value	Unit	Test method
Temperature range:	-20 to 140	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature	80	°C	
Density:	0.9	kg/dm ³	
Specifications:			
Thickener:	lithium/calcium		
Type of base oil:	mineral oil		
Base oil viscosity	at 40 °C:	245	mm ² /s
	at 100 °C:	20	mm ² /s
Worked penetration:	265-295	0.1 mm	DIN ISO 2137
NLGI grade:	2		DIN 51518
Drop point:	≥ 180	°C	DIN ISO 2176
Water resistance:	1-90	Range	DIN 51807 - 1
Corrosion Emcor Test:	≤ 0/0	Corr. Grade	DIN 51802
	with 0.5 % NaCl: ≤ 1/1	Corr. Grade	
Copper corrosion after 24 h/120 °C:	≤ 1	Corr. Grade	DIN 51811
FE8 tests run wear behaviour, Running time 500 hours without failure			
536048 - 1500/10-RT	vWk50 ≤ 35	mg	DIN 51819
536048 - 75/80-RT	vWk50 ≤ 35	mg	DIN 51819
536050MP - 7.5/80-80	vWk50 ≤ 35	mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-140	F50 ≥ 200	h	DIN 51821-02
	no failure < 100	h	
Low temperature torque			
-20 °C	Start / Steady-state	≤1000 / 100	Nmm
IP 186			
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	mm/min	500,000	300,000

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

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FAG Rolling Bearing Grease

Arcanol LOAD00

Properties, applications: Bearing grease for universal applications, high dynamic secondary stress, high loads, low starting temperatures, low starting friction over a wide speed range, also for applications with vertical shaft

Characteristics	Value	Unit	Test method
Temperature range:	-40 to 130	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature	80	°C	
Density:	0.9	kg/dm ³	
Specifications:			
Thickener:	lithium/calcium		
Type of base oil:	mineral oil		
Base oil viscosity	at 40 °C:	400	mm ² /s
	at 100 °C:	27	mm ² /s
Worked penetration:	265-295	0.1 mm	DIN ISO 2137
NLGI grade:	2		DIN 51518
Drop point:	≥ 170	°C	DIN ISO 2176
Water resistance:	1-90	Range	DIN 51807 - 1
Corrosion Emcor Test:	≤ 0/0	Corr. Grade	DIN 51802
	with 0.5 % NaCl: ≤ 1/1	Corr. Grade	
Copper corrosion after 24 h/130 °C:	≤ 1	Corr. Grade	DIN 51811
FE8 tests run wear behaviour, Running time 500 hours without failure			
536048 - 75/80-RT	vWk50 ≤ 35	mg	DIN 51819
536050MP - 3000/10-RT	vWk50 ≤ 35	mg	DIN 51819
536050MP - 7.5/80-80	vWk50 ≤ 35	mg	DIN 51819
536050MP - 7.5/80-RT	vWk50 ≤ 35	mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-130	F50 ≥ 200	h	DIN 51821-02
	no failure < 100	h	
Speed range:	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

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FAG Rolling Bearing Grease

Arcanol LOAD[®]

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	Value	Unit	Test method
Temperature range:	-30 to 130	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature	80	°C	
Density:	0.93	kg/dm ³	
Specifications:			
Thickener:	lithium/calcium		
Type of base oil:	mineral oil		
Base oil viscosity	at 40 °C:	400	mm ² /s
	at 100 °C:	25	mm ² /s
Worked penetration:	310-340	0.1 mm	DIN ISO 2137
NLGI grade:	1		DIN 51518
Drop point:	≥ 170	°C	DIN ISO 2176
Water resistance:	1-90	Range	DIN 51807 - 1
Corrosion Emcor Test:	≤ 0/0	Corr. Grade	DIN 51802
	with 1 % NaCl: ≤ 0/0	Corr. Grade	
Copper corrosion after 24 h/120 °C:	≤ 1	Corr. Grade	DIN 51811
FE8 tests run wear behaviour, Running time 500 hours without failure			
536048 - 75/80-RT	vWk50 ≤ 35	mg	DIN 51819
536050MP - 7.5/80/RT	vWk50 ≤ 35	mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-130	F50 ≥ 200	h	DIN 51821-02
	no failure < 100	h	
Low temperature torque			
-30 °C	Start / Steady-state	≤1000 /	Nmm
IP 186			
Lowest Isothermal Temperature (FE8)			
roller bearing - 500 hours reached: yes		10°C: / 6	mg
FAG			
Speed range:	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

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FAG Rolling Bearing Grease

Arcanol LOAD1000

Properties, Bearing grease for very high loads, shock loads, wide temperature range, good applications: water and corrosion resistance, low to moderate speeds

Characteristics	Value	Unit	Test method
Temperature range:	-20 to 130	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature	80	°C	
Density:	0.93	kg/dm ³	
Specifications:			
Thickener:	lithium/calcium		
Type of base oil:	mineral oil		
Base oil viscosity	at 40 °C:	1000	mm ² /s
	at 100 °C:	38	mm ² /s
Worked penetration:	265-295	0.1 mm	DIN ISO 2137
NLGI grade:	2		DIN 51518
Drop point:	≥ 180	°C	DIN ISO 2176
Water resistance:	1-90	Range	DIN 51807 - 1
Corrosion Emcor Test:	≤ 0/0	Corr. Grade	DIN 51802
	with 0.5 % NaCl:	Corr. Grade	
Copper corrosion after 24 h/100 °C:	≤ 2	Corr. Grade	DIN 51811
FE8 tests run wear behaviour, Running time 500 hours without failure			
536048 - 75/80-120	vWk50 ≤ 35	mg	DIN 51819
536048 - 75/80-RT	vWk50 ≤ 35	mg	DIN 51819
536048 - 750/30-RT	vWk50 ≤ 35	mg	DIN 51819
536050MP - 7.5/80-80	vWk50 ≤ 35	mg	DIN 51819
536050MP - 75/80-RT	vWk50 ≤ 35	mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-140	F50 ≥ 150	h	DIN 51821-02
	no failure < 50	h	
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	mm/min	300,000	200,000

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

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