

FAG Rolling Bearing Grease

Arcanol TEMP90

Properties, applications: Bearing grease for universal application, moderate to high loads, increased temperatures, low starting temperatures

Characteristics	Value	Unit	Test method
Temperature range:	-40 to 160	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature	90	°C	
Density:	0.9	kg/dm ³	
Specifications:			
Thickener:	polyurea		
Type of base oil:	mineral+SHC oil		
Base oil viscosity	at 40 °C: 148	mm ² /s	DIN 51562 - 1
	at 100 °C: 15.5	mm ² /s	DIN 51562 - 1
Worked penetration:	220-250	0.1 mm	DIN ISO 2137
NLGI grade:	3		DIN 51518
Drop point:	≥ 250	°C	DIN ISO 2176
Water resistance:	0-90	Range	DIN 51807 - 1
Corrosion Emcor Test:	≤ 0/0	Corr. Grade	DIN 51802
	with 1 % 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 - 75/80-100	vWk50 ≤ 35	mg	DIN 51819
536050MP - 7.5/80-100	vWk50 ≤ 35	mg	DIN 51819
536050MP - 7.5/80-80	vWk50 ≤ 35	mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000/160	F50 ≥ 200	h	DIN 51821-02
	no failure < 100	h	
B/1500/6000/160	F50 ≥ 300	h	DIN 51821-02
	no failure < 200	h	
Low temperature torque			
-40 °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	700,000	250,000

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

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FAG Rolling Bearing Grease

Arcanol TEMP110

Properties, applications: Bearing grease for universal application, moderate to high loads, increased temperatures, low starting temperatures, wide speed factor

Characteristics	Value	Unit	Test method	
Temperature range:	-35 to 160	°C	DIN 51825 / Schaeffler Spec.	
Longtime limit temperature	110	°C		
Density:	0.9	kg/dm ³		
Specifications:				
Thickener:	lithium complex			
Type of base oil:	part synth oil			
Base oil viscosity	at 40 °C:	130	mm ² /s	
	at 100 °C:	14	mm ² /s	
Worked penetration:	250-295	0.1 mm	DIN ISO 2137	
NLGI grade:	2		DIN 51518	
Drop point:	≥ 220	°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: ≤ 2/2	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 - 75/80-120	vWk50 ≤ 35	mg	DIN 51819	
536050MP - 7.5/80-120	vWk50 ≤ 35	mg	DIN 51819	
536050MP - 7.5/80-80	vWk50 ≤ 35	mg	DIN 51819	
FE9 tests run (grease service lifetime)				
A/1500/6000-150	F50 ≥ 200	h	DIN 51821-02	
	no failure < 100	h		
Low temperature torque				
-35 °C	Start / Steady-state	127 / 82	Nmm	IP 186
-35 °C	Start / Steady-state	79 / 73	Nmm	IP 186
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)	
Speed limit n*dm	mm/min	500,000	250,000	

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

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FAG Rolling Bearing Grease

Arcanol TEMP120

Properties, applications: Bearing grease for universal application, moderate to high loads, high temperatures, low starting temperature

Characteristics	Value	Unit	Test method
Temperature range:	-30 to 180	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature	120	°C	
Density:	0.93	kg/dm ³	
Specifications:			
Thickener:	polyurea		
Type of base oil:	SHC oil		
Base oil viscosity at 40 °C:	400	mm ² /s	DIN 51562 - 1
Base oil viscosity at 100 °C:	40	mm ² /s	DIN 51562 - 1
Worked penetration:	265-295	0.1 mm	DIN ISO 2137
NLGI grade:	2		DIN 51518
Drop point:	≥ 230	°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/120 °C:	≤ 2	Corr. Grade	DIN 51811
FE8 tests run wear behaviour, Running time 500 hours without failure			
536048 - 75/80-RT	vWk50 ≤ 30	mg	DIN 51819
536050MP - 7.5/80-160	vWk50 ≤ 30	mg	DIN 51819
536050MP - 7.5/80-80	vWk50 ≤ 30	mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-180	F50 ≥ 100	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	150,000

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

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FAG Rolling Bearing Grease

Arcanol TEMP200

Properties, Bearing grease for very high temperatures, chemically aggressive environment applications:

Characteristics	Value	Unit	Test method	
Temperature range:	-30 to 260	°C	DIN 51825 / Schaeffler Spec.	
Longtime limit temperature	200	°C		
Density:	1.9	kg/dm ³		
Specifications:	InS H1			
Thickener:	PTFE			
Type of base oil:	Alkoxyfluorinated oil			
Base oil viscosity	at 40 °C:	550	mm ² /s	
	at 100 °C:	49.1	mm ² /s	
Worked penetration:	265-295	0.1 mm	DIN ISO 2137	
NLGI grade:	2		DIN 51518	
Drop point:	not measurable	°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/200 °C:	≤ 2	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 - 7.5/80-160	vWk50 ≤ 35	mg	DIN 51819	
536050MP - 7.5/80-80	vWk50 ≤ 35	mg	DIN 51819	
FE9 tests run (grease service lifetime)				
B/1500/6000-220	F50 ≥ 100	h	DIN 51821-02	
	no failure < 50	h		
Low temperature torque				
-20 °C	Start / Steady State	184 / 124	Nmm	ASTM D1478
40 °C	Start / Steady State	31 / 16	Nmm	ASTM D1478
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

Metallic surfaces shall be free of mineral oil based products before grease application!

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