

Schaeffler Rolling Bearing Grease

Arcanol FOOD2

Properties, applications: Universal application, improved relubricatability, grease with NSF-H1 release (food contact)

Characteristics	Value	Unit	Test method
Temperature range:	-30 to 120	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature:	70	°C	
Density:	0.88	kg/dm ³	
Specifications:	NSF H1, Koscher		
Thickener:	aluminium complex		
Type of base oil:	SHC oil		
Base oil viscosity at 40 °C:	150	mm ² /s	DIN 51562 - 1
at 100 °C:	18	mm ² /s	DIN 51562 - 1
Worked penetration:	265-295	0.1 mm	DIN ISO 2137
NLGI grade:	2		DIN 51518
Drop point:	≥ 240	°C	DIN ISO 2176
Water resistance:	1-90	Range	DIN 51807 - 1
Corrosion Emcor Test:	≤ 1/1	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 - 75/80-RT	vWk50 ≤ 35	mg	DIN 51819
536050MP - 7.5/80-80	vWk50 ≤ 35	mg	DIN 51819
FE9 tests run (grease service lifetime)			
B/1500/6000/120	F50 ≥ 200	h	DIN 51821-02
	no failure < 100	h	
Low temperature torque			
-30 °C Start / Steady-state	68 / 42	Nmm	IP 186
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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Edition 23.08.2019

Schaeffler Rolling Bearing Greas

Arcanol MOTION2

Properties, applications: Bearing grease for oscillating bearings, especially for small slewing angles, moderate to high loads, low starting temperatures, jaw and pitch bearings in wind turbines

Characteristics	Value	Unit	Test method
Temperature range:	-40 to 130	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature:	75	°C	
Density:	0.91	kg/dm ³	
Specifications:			
Thickener:	lithium soap		
Type of base oil:	synth. oil		
Base oil viscosity at 40 °C:	50	mm ² /s	DIN 51562 - 1
at 100 °C:	8	mm ² /s	DIN 51562 - 1
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:	≤ 0/1	Corr. Grade	DIN 51802
with 0.5 % NaCl:		Corr. Grade	
Copper corrosion after 24 h/100 °C:	≤ 1	Corr. Grade	DIN 51811
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	mm/min	500,000	

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Schaeffler Rolling Bearing Greas

Arcanol MOUNTINGPASTE

Properties, applications: Mounting paste for reduction of stick-slip and fretting corrosion

Characteristics	Value	Unit	Test method
Temperature range:	-20 to 110	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature:		°C	
Density:	approx. 0.	kg/dm ³	
Specifications:			
Thickener:	lithium soap		
Type of base oil:	mineral oil		
Base oil viscosity at 40 °C:	185	mm ² /s	DIN 51562 - 1
at 100 °C:		mm ² /s	DIN 51562 - 1
Worked penetration:	265-295	0.1 mm	DIN ISO 2137
NLGI grade:	2		DIN 51518
Drop point:	≥ 130	°C	DIN ISO 2176
Water resistance:	0-90	Range	DIN 51807 - 1
Corrosion Emcor Test:	≤ 0/0	Corr. Grade	DIN 51802
with 0.5 % NaCl:		Corr. Grade	
Copper corrosion after 24 h/ °C:		Corr. Grade	DIN 51811
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	mm/min		

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Schaeffler Rolling Bearing Greas

Arcanol MOUNTINGPASTE2

Properties, mounting paste; reduction of stick-slip and fretting corrosion
applications:

Characteristics	Value	Unit	Test method
Temperature range:	-30 to 140	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature:		°C	
Density:	1.3	kg/dm ³	
Specifications:			
Thickener:	lithium soap		
Type of base oil:	SHC oil		
Base oil viscosity	at 40 °C: 100	mm ² /s	DIN 51562 - 1
	at 100 °C: 13.5	mm ² /s	DIN 51562 - 1
Worked penetration:	265-295	0.1 mm	DIN ISO 2137
NLGI grade:	2		DIN 51518
Drop point:		°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
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	mm/min		

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Schaeffler Rolling Bearing Greas

Arcanol SPEED2,6

Properties, applications: Bearing grease for low temperatures, high speeds, especially for spindle bearing applications:

Characteristics	Value	Unit	Test method
Temperature range:	-40 to 120	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature:	80	°C	
Density:	0.94	kg/dm ³	
Specifications:			
Thickener:	lithium complex		
Type of base oil:	SHC/ester oil		
Base oil viscosity at 40 °C:	25	mm ² /s	DIN 51562 - 1
Base oil viscosity at 100 °C:	6	mm ² /s	DIN 51562 - 1
Worked penetration:	250-265	0.1 mm	DIN ISO 2137
NLGI grade:	2-3		DIN 51518
Drop point:	≥ 220	°C	DIN ISO 2176
Water resistance:	1-90	Range	DIN 51807 - 1
Corrosion Emcor Test:	≤ 0/1	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			
536050MP - 7.5/80-RT	vWk50 ≤ 35	mg	DIN 51819
536050TVP - 6000/5-90	vWk50 ≤ 35	mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-120	F50 ≥ 150	h	DIN 51821-02
	no failure < 100	h	
Low temperature torque			
-50 °C Start / Steady State	131 / 106	Nmm	ASTM D1478
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	mm/min	2,000,000	200,000

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Schaeffler Rolling Bearing Greas

Arcanol VIB3

Properties, applications: Bearing grease for oscillating bearings, especially for small slewing angles, moderate to high loads, low starting temperatures, low starting friction, also for vertical shaft and rotating outer ring

Characteristics	Value	Unit	Test method
Temperature range:	-30 to 150	°C	DIN 51825 / Schaeffler Spec.
Longtime limit temperature:	90	°C	
Density:	0.9	kg/dm ³	
Specifications:			
Thickener:	lithium complex		
Type of base oil:	mineral oil		
Base oil viscosity at 40 °C:	170	mm ² /s	DIN 51562 - 1
Base oil viscosity at 100 °C:	14	mm ² /s	DIN 51562 - 1
Worked penetration:	200-230	0.1 mm	DIN ISO 2137
NLGI grade:	3-4		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/120 °C:	≤ 2	Corr. Grade	DIN 51811
FE8 tests run wear behaviour, Running time 500 hours without failure			
536050 - 3000/10-80	vWk50 ≤ 35	mg	DIN 51819
536050 - 7.5/80-RT	vWk50 ≤ 35	mg	DIN 51819
FE9 tests run (grease service lifetime)			
A/1500/6000-150	F50 ≥ 100	h	DIN 51821-02
Speed range:	Unit	Ball bearings and cylindrical roller bearings	Other roller bearings*)
Speed limit n*dm	mm/min	350,000	200,000

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

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