

Schaeffler Rolling Bearing Greas

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

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Schaeffler Rolling Bearing Greas

Arcanol LOAD220

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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Schaeffler Rolling Bearing Greas

Arcanol LOAD400

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:	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 - 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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Schaeffler Rolling Bearing Greas

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	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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Schaeffler Rolling Bearing Greas

Arcanol LOAD1000

Properties, applications: Bearing grease for very high loads, shock loads, wide temperature range, good 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	DIN 51562 - 1
	at 100 °C:	38	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:	≤ 0/0	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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