



## Product Data Sheet

# OPTIMOL OPTIPIT

Water and dirt repellent special grease with MICROFLUX TRANS<sup>®</sup>, the load-active additive combination

### DESCRIPTION

OPTIMOL OPTIPIT is a brownish transparent special grease based on lithium soap with an extremely high oil viscosity. It is especially suited for rolling and sliding bearings in dusty and humid environments.

The additive combination MICROFLUX TRANS<sup>®</sup> adjusts itself to changing loads and actively prevents wear.

### APPLICATIONS

- Rolling and sliding bearings exposed to weather, humid and dusty atmosphere:
  - in mining/especially open-cast mining
  - in walking legs of cable dredgers
  - in ships and drilling platforms
- Bearings subjected to heavy shock loads and vibrations at low speeds
- Rolling bearings which require an extremely high oil viscosity due to their operating conditions
- Temperature application range: - 10°C/+ 14°F to + 140°C/+ 284°F

### ADVANTAGES

- water and dirt repellent
- extreme load carrying capacity
- optimum wear protection in the high load range
- improved surface quality
- excellent adhesion
- extraordinary corrosion protection, largely prevents fretting corrosion
- suited for lifetime lubrication

### NOTES FOR USE

- Please observe the specifications of the bearing manufacturers.
- Grease rolling bearings, fill rolling bearing housing only about half full with grease.
- In case of relubrication via grease nipple, pump grease into the bearing until fresh grease vents.



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## Technical data

	Unit	Value	Test method
<b>OPTIMOL OPTIPIT</b>	-	-	-
Article no.	-	08110	-
Color	-	brown	visual
Base	-	lithium/mineral oil	-
Consistency/NLGI grade	-	2 - 3	DIN 51818
Worked penetration Pw 60	0.1 mm	245 - 275	DIN ISO 2137
Difference: Pw 100.000 - Pw 60	0.1 mm	14	-
Density at + 20 °C/+ 68°F	kg/m <sup>3</sup>	905	DIN 51757
Base oil viscosity at + 40°C/+ 104°F	mm <sup>2</sup> /s	1350	DIN 51562
Dropping point	°C °F	> 250 > 482	DIN ISO 2176
Water resistance at + 90°C/+ 194°F	-	0	DIN 51807 T. 1
Corrosion protection (SKF Emcor)	-	1	DIN 51802
Copper corrosion protection at + 100°C/+ 212°F	-	0	DIN 51811
Oil separation at + 40°C/+ 104°F/168 h	wt. %	0.32	DIN 51817
Flow pressure at - 20°C/- 4°F	hPa	758	DIN 51805
SRV <sup>®</sup> test run - test mode 5ae: 300 N/50°C/122°F/ball/surface/2h coefficient of friction	-	0.082	DIN E 51834
wear			
a) ball/scar Ø	mm	0.53	
b) profile depth Pt	µm	1.2	

1 mm<sup>2</sup>/s  $\hat{=}$  1cSt

These technical data are based on average test results. Minor deviations may occur from case to case.

For further product information please contact the Technical Service of Castrol Industrie GmbH.

Above data are based on extensive tests and practical experience. Considering the wide range of application requirements, they cannot, however, guarantee success in every single case. We therefore recommend practical trials. We reserve the right to change the product composition with a view to further improvement.