



GREASE 31 EP

Calcium Complex GREASE FOR EXTREME REQUIREMENTS

Vorta Grease 31 EP are lubricating greases with a mineral base oil and a special *calcium Sulfonate soap thickener*.

(Calcium complex)

They offer goodwear protection and a high resistance to mechano-dynamical loads.

These greases are resistant to oxidation and ageing, offer good adhesion properties and protection against tribocorrosion.

Vorta Grease 31 EP offer a high resistance to water, water vapour up to 130 °C, and to many diluted bases and acids, for example

to 10% potassium lye up to 90 °C, to 10% sulphuric acid up to 70 °C, to 10% nitric acid up to 40 °C and to 1% hydrochloric acid up to 40 °C. (Tests carried outwith V2A stainless steel stripsbased on DIN 51 807 Pt 1.)

Water resistance test in an autoclave Water vapour 130 °C / 220 h Vorta grease 31 EP shows very good resistance; loss in weightapprox. – 0.1%; texture unchanged.

As compared to this positive result amineral oil base grease with lithium soap thickener (V40 approx. 520 mm2/s) shows a loss in weightof approx. 75% and a severe modi-fication of texture

Application

- Long-term or lifetime lubrication of rolling bearings, e.g.
- In automotive components (water pump bearings, universal joint bushings).
- Wet processing machines in the textile industry (festoon steamers, washing machines)
- Spinning machines (top and bottom rollers of drafting frames).
- Conveyor systems (loadrollers in wet areas)
- Paper machines (especially in wet sections).
- Agricultural and construction machinery,
- Machines in the food processing industry as well as rolling bearings in electric motors, fans, and pumps.
- Other applications: Lubricating and sealing greases for labyrinths and industrial valves and fittings. (vapour valves, spindles andthrust bearings).

GRADE	TEST METHOD	UNIT	GREASE 31 EP	
NLGI Classification			2	Project vision call Project Pr
Thickener			Calcium Sulfonat	
Texture			Tacky	
Flash point-base oil	ASTM D92	°C	> 300	
Ignition Temperature		°C	> 370	
Drop Point	ASTM D556	°C	> 190	
Rusting Test	IP 220	Rating	0	
Work Penetration 60 strokes @ 25 °C	ASTM D217	0.1mm	265-295	003
Timken OK Load	ASTM D2509	1b	60	
Operating Temperature	Continuous	°C	150	
	Intermittent	°C	200	
Speed Factor (n x Dm)	mm	x min ⁻¹	400,000	
Flow pressure	DIN 51 805	°C	-15	
			500	

