

# Rhenus Norplex AFD

Aluminium Complex Grease – NLGI-Grades: 00 – 0 – 1 – 2

**Description** Rhenus Norplex AFD are light aluminium complex greases based on medical white oil.

**Application and Properties** Rhenus Norplex AFD are suitable for friction- and roller bearings under normal loads.

Rhenus Norplex AFD are physiologically harmless and therefore, recommended for lubrication of machinery in food, cosmetic, pharmaceutical and packing industry.

Rhenus Norplex AFD are in accordance with the FDA-Guidelines 21 CFR 178.3570 and shall be used where a direct contact with the lubricant cannot be excluded. Excessive lubrication, which may cause food contact, shall be avoided.

Rhenus Norplex AFD are registered by NSF (National Sanitary Foundation) category code H1.



Advantages

- resistant to oxidation
- water resistant
- high stability
- corrosion resistant
- physiologically harmless
- good adhesiveness
- suitable for central lubricating systems
- good anti-wear properties

**Technical Data**

		AFD 00	AFD 0	AFD 1	AFD 2
Thickener		Al-Complex	Al-Complex	Al-Complex	Al-Complex
Operating temperature for long-term lubrication		-20 to +140°C	-20 to +140°C	-20 to +140°C	-20 to +140°C
Short time admissible temperature peak value		+180°C	+180°C	+180°C	+180°C
Permanent temperatures above 140°C, require regreasing at shorter intervals subject to thermal load.					
Drop point	ASTM D 2265	> 240°C	> 240°C	> 240°C	> 240°C
Worked penetration after 60 strokes	ASTM D 217	400-430 <sup>1</sup> / <sub>10</sub> mm	355-385 <sup>1</sup> / <sub>10</sub> mm	310-340 <sup>1</sup> / <sub>10</sub> mm	265-295 <sup>1</sup> / <sub>10</sub> mm
Type of base oil		Med. white oil (DAB 10)			
Base oil viscosity at 40 °C	ASTM D 445	160 mm <sup>2</sup> /s			
Water resistance	DIN 51 807-1	0 – 90	0 - 90	0 - 90	0 - 90
SKF Emscor Test	IP 220/85	Corrosion degree 0/1	Corrosion degree 0/1	Corrosion degree 0/1	Corrosion degree 0/1
Designation	DIN 51 502	G 00 N - 20	G 0 N - 20	K 1 N - 20	K 2 N - 20

Subject to modification of the technical data. Please refer to the material safety data sheet for additional information or contact our application engineers.

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