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AFRIQ IGO FULL SYNTHETIC 680

DESCRIPTION

Afriq IGO Full Synthetic 680 is recommended specifically for use in General Electric off-Highway Motorized Wheels fitted to haul trucks used in mining applications. **Afriq IGO Full Synthetic 680** is an advanced synthetic heavy duty industrial gear oil offering outstanding lubrication performance under severe operating conditions, including improved energy and long service life.

APPLICATION

Approved for use in GE and Hitachi motorised wheel hubs

- Specially suitable for the gear cases of General Electric and Hitachi motorised wheels fitted to haul trucks used in mining applications.

Proven performance in off-highway applications

- **Afriq IGO Full Synthetic 680** has a long history of use in severe off-highway applications and extreme climates. Its advanced, synthetic formulation meets the requirements of major equipment builders such as General Electric, Komatsu, Euclid-Hitachi and Liebherr.

Enclosed industrial gear systems

- For use in enclosed industrial reduction gear systems operating under severe operating conditions, such as high load, very low or elevated temperatures and wide temperature variations.

Other applications

- For highly- loaded worm drives the **Afriq IGO Full Synthetic 680** oil is recommended
- **Afriq IGO Full Synthetic 680** oils are suitable for lubrication of bearings and other components in circulating and splash lubricated systems.
- For automotive hypoid gears, the appropriate oil should be used.

BENEFITS

Enhanced System efficiency

- **Afriq IGO Full Synthetic 680** can help maintain or enhance the efficiency of gear systems through improved low temperature performance. This provides better lubrication at low start-up temperatures.
- **Afriq IGO Full Synthetic 680** also has excellent water shedding and air release properties helping it maintain critical oil films and efficient lubrication.

Long oil life – maintenance saving

- **Afriq IGO Full Synthetic 680** offers the potential to significantly extend service intervals compared to conventional gear oils.
- **Afriq IGO Full Synthetic 680** is formulated to resist chemical and thermal breakdown and to resist the formation of harmful oxidation products at high operating temperatures to help maintain system cleanliness over extended maintenance intervals.



Excellent wear and corrosion protection

- **Afriq IGO Full Synthetic 680** also provides outstanding rust and corrosion protection of all metal surfaces.
- **Afriq IGO Full Synthetic 680** provides high levels of load carrying capacity even under shock loading conditions giving superior protection compared to mineral oil-based products in terms of gear and bearing component life.

APPROVALS

- Davidson Brown Si.53.106H
- Us Steel 224
- DIN 51517-3 (CLP)

Approved by GE under GEK – 30375H against the following:

- ISO 320 GE Specification D50E27C
- ISO 460 GE Specification D50E27D
- ISO 680 GE Specification D50E27E

For all approvals contact our technical division in Afriqlube.

TYPICAL PHYSICAL CHARACTERISTICS

Properties	Method	IGO Full Synthetic 680
Viscosity grade	ISO 3448	680
Flash Point °C	ISO 2592 (COC)	274
Pour Point °C	ISO 3016	-43
Viscosity Index	ISO 2909	157
Density @15°; kg/m³	ISO 12185	860.7
FZG Load Carrying Test ; failure load stage	DIN 51354-2 A/8.3/90	>12
Timken OK Load; lbs	ASTM D 2782	>80
Kinematic Viscosity ; @40°C; mm²/s	ISO 3104	680
Kinematic Viscosity; @100°C; mm²/s	ISO 3104	61