

FAIRCOL NS 32

High-performance, long-life oil for rotary air compressors

FAIRCOL NS 32 is a high-performance, long-life oil specifically designed for rotary air compressors, and it is the first mineral-based oil to offer a maintenance-free operation period of up to 12,000 hours. To meet the stringent performance demands of high-efficiency and high-load of compressors, and customers' desire for maintenance-free products, **FAIRCOL NS 32** has been developed by applying highly refined base oils and special additives that effectively suppress sludge formation.

● SPECIAL FEATURES

1. Achieved Long-Life with Mineral-Based Oil

FAIRCOL NS 32 is the first mineral-based oil to achieve an exceptional long-life performance, offering a maintenance-free operation period of 12,000 hours comparable to commercial synthetic oils under conditions at an average oil temperature of 80°C, discharge pressure of 0.7MPa and continuous full-load operation.

2. Reduced Sludge-Related Issues

FAIRCOL NS 32 is blended with specially formulated additives that have been successful in suppressing sludge formation. It has been demonstrated to reduce sludge-related issues while maintaining the long-life performance through field tests on actual compressors from various manufacturers.

3. No Negative Effects on Organic Materials

Since **FAIRCOL NS 32** is based on mineral oil, it rarely causes issues such as oil leakage due to shrinkage of rubber seal rings or negative effects on various components, including level gauge resin materials.

4. Simplified Lubricant Management

FAIRCOL NS 32 facilitates lubricant management due to the noticeable increase in acid value towards the end of its service life.

5. Additional Features

- (1) Excellent water separability maintains over a wide temperature range for extended periods.
- (2) Good antifoaming properties are maintained for extended periods.
- (3) It prevents rust formation inside the compressor for extended periods.
- (4) It does not generate unpleasant odors during operation as it does not contain light

components.

- (5) It improves startup characteristics of the compressor at low temperatures due to its high viscosity index and low pour point.

● IMPORTANT NOTE

During storage, **FAIRCOL NS 32** may occasionally develop a reddish tint. This discoloration is attributed to the amine-based oxidation inhibitors and does not affect the oil's oxidation resistance or other performance. Please continue to use the product as normal.

● APPLICATIONS

Screw compressors
Scroll compressors
Rotary vane compressors

● CONTAINERS

200-liter drum and 20-liter can

● **TYPICAL PROPERTIES of FAIRCOL NS 32**

Color	(ASTM)		L0.5
Density	(15°C)	g/cm ³	0.843
Kinematic viscosity	(40°C)	mm ² /s	29.8
Kinematic viscosity	(100°C)	mm ² /s	5.70
Viscosity index			135
Flash point	(COC)	°C	248
Pour point		°C	-32.5
Water separability	(54°C)	min	40-37-3 (5)
Acid number		mgKOH/g	0.04
Rust prevention	(Distilled water, 60°C, 24h)		No rust
Oxidation Stability	(RPVOT, 150°C)		3359

Note: The typical properties may be changed without notice. (May 2024)



**Handling
Precautions**

▼ Follow these precautions when handling this product.

Composition :	Base Oil(s), Additives
Hazard pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Harmful to aquatic life
Precautionary Statements:	<ul style="list-style-type: none"> • Do not handle until all safety precautions have been read and understood. • Wear protective gloves/protective clothing/eye protection/face protection. • Do not allow the eyes to become exposed to the product. Do not swallow the product. • Avoid release to the environment. • Wash hands thoroughly after handling. • Do not eat, drink or smoke when using this product.
Prevention	
Response	<ul style="list-style-type: none"> • IF SWALLOWED: Immediately call a POISON CENTER/doctor. • IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. • If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician. • IF ON SKIN: Wash with plenty of soap and water.
Storage	<ul style="list-style-type: none"> • The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight. • Containers that have been opened must be tightly sealed.
Disposal	<ul style="list-style-type: none"> • Dispose of contents/container in accordance with local/regional/national/international regulations. • If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.