Product Name: Compressor Oil
Application: Compressors
ISO viscosity grade: 32, 46, 68, 100, 150, 220
Quality: Synthetic
Recommended for: rotary screw, reciprocating, and vane air compressors used in **industrial, marine, and chemical processing environments**, ensuring reliable performance under high-pressure conditions. It is also suitable for **vacuum pumps and hydraulic systems** that require a **high-performance fluid** to maintain efficiency and durability. Additionally, this oil is ideal for **liquefied gas compression systems**, including **LPG, LNG, and hydrocarbon chemical gases**,
Drain Interval: Between 4,000 to 10,000 Operation hours

Product Overview

Compressor Oil is a high-performance synthetic and mineral-based lubricant engineered for rotary screw, reciprocating, and vane air compressors operating under high temperatures, pressure, and gas-filled atmospheres. Designed with poly-alkylene glycol (PAG) and advanced anti-wear additives, it provides exceptional viscosity stability, oxidation resistance, and reduced gas solubility, ensuring maximum protection, efficiency, and extended oil life.

Application

- Industrial, marine, and chemical processing air compressors, including rotary screw, reciprocating, and vane types
- Vacuum pumps and hydraulic systems requiring a high-performance, thermally stable fluid
- Liquefied gas compression systems, including LPG, LNG, and hydrocarbon chemical gases (methane, ethane, propane, butane, ethylene, propylene, butylene)
- Chemical gas compressors handling ammonia, vinyl chloride monomer, and butadiene
- Cold climate operations, ensuring easy winter starts and excellent temperature stability.

Performance Benefits

- **Reduced Gas Solubility** – Prevents viscosity dilution and improves efficiency
- **Superior Wear Protection** – Extends equipment life and reduces maintenance costs
- **High Oxidation & Thermal Stability** – Resists deposit formation and oil degradation
- **Outstanding Foam & Sludge Control** – Ensures smooth operation and reduced wear
- **Extended Drain Intervals** – Reduces downtime and increases operational efficiency
- **Excellent Low-Temperature Fluidity** – Allows easy start-ups in cold conditions.

Meets & Approvals

- Meets ISO 6743-3 DAA, DAB, DAG, DAH standards
- DIN 51506 VBL, VCL, VDL
- AGMA Lubricant Specification for Compressors
- ASTM D92, D445, D97, D1298 tested

Typical Properties

Property	Unit	VG 32	VG 46	VG 68	VG 100	VG 150	VG 220
Kinematic Viscosity @ 40°C	mm²/s	32.0	46.0	68.0	100.0	150.0	220.0
Kinematic Viscosity @ 100°C	mm²/s	5.6	7.0	9.2	11.5	14.8	19.5
Viscosity Index	-	105	107	110	112	115	118
Flash Point (COC)	°C	230	240	250	260	270	280
Pour Point	°C	-42	-39	-36	-33	-30	-27
Density @ 15°C	kg/L	0.865	0.870	0.875	0.880	0.885	0.890
Foam Tendency (Seq I, 24°C)	ml	10/0	10/0	10/0	10/0	10/0	10/0
Rust Test (ASTM D665A)	-	Pass	Pass	Pass	Pass	Pass	Pass
Copper Corrosion (3h @ 100°C)	ASTM D130	1B	1B	1B	1B	1B	1B

Mileage (Drain Interval) for SCOM Compressor Oil

Viscosity Grade (ISO VG)	Typical Drain Interval (Hours)	Best-Suited Applications
32	4,000 – 6,000	High-speed rotary screw compressors
46	5,000 – 7,500	Reciprocating compressors, vacuum pumps
68	6,000 – 8,000	Heavy-duty rotary vane and screw compressors
100	7,500 – 10,000	High-temperature reciprocating compressors
150	8,000 – 12,000	Large, slow-speed air and gas compressors
220	10,000+	Specialized high-load, high-pressure compressors
32	4,000 – 6,000	High-speed rotary screw compressors
46	5,000 – 7,500	Reciprocating compressors, vacuum pumps
68	6,000 – 8,000	Heavy-duty rotary vane and screw compressors

- **Severe Conditions (High Load & Temperature):** Reduce interval by **20-30%**
- **Condition Monitoring:** Regular **oil analysis** ensures extended drain intervals and peak performance

Health, Safety, and Environmental Guidelines:

- **Handling:** Avoid prolonged skin contact; wash with soap and water if contact occurs.
- **Disposal:** Dispose of used oil responsibly at authorized collection points.
- **Storage:** Store in a covered, dry environment at temperatures below 60°C. Keep drums horizontally to prevent water ingress.