

Shell Corena Oil S

Lubricant for rotary screw and vane air compressors



Shell Corena S is a premium quality lubricant developed for the lubrication of rotary sliding vane and screw air compressors. It is based on a blend of selected solvent refined base oils and carefully chosen additives.

Applications

- **Rotary sliding vane air compressors**
Oil flooded or oil injected, single or two-stage compressors, operating at pressures of up to 10 bar and with air discharge temperatures of up to 100°C.
- **Screw air compressors**
Oil flooded or oil injected, single or two-stage compressors, operating at pressures of up to 20 bar and with air discharge temperatures of up to 100°C.

Advice on applications not covered in this leaflet may be obtained from your Shell representative.

Performance Features and Advantages

- **Very good oil oxidation resistance**
Resists formation of carbon deposits in sliding vane slots, enabling them to move freely. Also resists deposit formation on rotating components of screw compressors. As a consequence, high levels of compressor efficiency can be maintained for long periods in both types of compressor.
- **Very good air release and anti-foam properties**
The careful selection of base oils and additives provides rapid air release without excessive foaming to give trouble-free operation even under cycling conditions.
- **Very good rusting and wear protection**
Effectively protects all metal surfaces from corrosion. Protects all sensitive machinery parts, e.g. gears, screws, bearings, from wear and prolongs the service intervals.

- **Internal cleanliness**
Coupled with the oil's long life capability is its ability to maintain internal surface cleanliness in service. This is important to maintain high levels of performance for the compressor and separator/coalescer.
- **Oil drain periods**
Corena S will allow the oil drain period to be extended to 4000 hours, even when operating at a continuous maximum discharge air temperature of up to 100°C.

Specification and Approvals

ISO 6743-3A-DAH

Seal compatibility

Corena S is compatible with all sealing materials commonly used in air compressors.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

Protect the environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Typical Physical Characteristics

Corena S			32	46	68	100	150
ISO Viscosity Grade		ISO 3448	32	46	68	100	150
Kinematic viscosity		ASTM D445					
at 40°C	mm ² /s		32	46	68	100	150
at 100°C	mm ² /s		5,4	6,7	9,0	13,8	15,1
Density at 15°C	kg/m ³	ASTM D1298	871,0	874,0	876,0	881,0	892,0
Flash point (COC)	°C	ASTM D92	205	210	215	225	235
Pour point	°C	ASTM D97	-30	-30	-30	-24	-18
Ash, sulphated	%	DIN 51575	< 0,03	< 0,03	< 0,03	< 0,03	< 0,03
Oxidation stability (delta-CCT)	%	DIN 51352-1	-	0,45	-	-	-
Water separability	min	ASTM D1401					
at 54 °C	min		15	20	20	-	-
at 82 °C	min		-	-	-	10	15

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.