

Shell Corena Oil V

Premium Vacuum pump lubricant



Shell Corena Oil V is formulated from selected, premium performance, highly refined mineral oils without containing any additives. It has natural resistance against ageing. Corena V is suitable for the lubrication of rotary vacuum pumps.

Applications

- **Rotary vacuum pump**
Corena V is designed for the use in rotary and slide van vacuum pumps. Here it can be used to a vacuum pressure of 1×10^{-3} mbar. This will cover most of the industrial and also laboratory applications.

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

Performance Features and Advantages

- **Very good oxidation stability**
The selected mineral base oil for the formulation of Corena V is offering a very good natural resistance to oil degradation. This will ensure a long oil life, low tendency for building up sludge and deposits formation
- **Sufficient low vapour pressure**
The careful selection of the base oil is providing a very low vapour pressure of the oil because of the narrow boiling range. This will enable the machine to easily reach the vacuum it is designed for. It also helps to minimise the thickening of the oil because of light-end carry over.
- **Corrosion protection**
It will ensure proper rust protection to all components because the neutral behaviour of the oil.

- **Good demulsibility**

Corena V will offer a good demulsibility in order to keep the amount of moisture and water in the oil to a minimum.

Specification and Approvals

ISO 6743-3A-DVC

Shell Corena V is known and used to many key OEM's throughout the world.

Application advice

Corena V should not be used in vacuum pumps running under conditions like very high temperatures and permanent service. It should not be used when corrosive gases or vapours are involved in the extraction process.

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 authorised collection point. Do not discharge into drains, soil or water.

Typical Physical Characteristics

Kinematic viscosity		ASTM D445	
at 40℃	mm ² /s		108
at 100℃	mm ² /s		11,8
Density at 15℃	kg	ASTM D1298	882
Flash point COC	℃	ASTM D92	265
Pour point	℃	ASTM D97	-9
Neutralisation value	mg KOH/g	ASTM D947	<0,04
Ash content	%m	ISO 6245	<0,01
Conradson carbon residue	%m	DIN 51551	0,05
Vapour pressure			
at 221℃	mbar		1
at 140℃	mbar		6 x 10 ⁻³
at 100℃	mbar		2,7 x 10 ⁻⁴
at 80℃	mbar		3,5 x 10 ⁻⁵

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