



# SHELL CORENA<sup>®</sup> FLUIDS DE

## Synthetic compressor lubricants

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### Product Description

**Shell Corena<sup>®</sup> Fluids DE** are fully synthetic lubricants designed for the lubrication of reciprocating compressors. They are formulated using the high quality diester base fluids, in combination with high quality additives. This series is intended for the lubrication of both the crankcase and cylinders of reciprocating air compressors, where fluids of their viscosity are recommended. **Shell Corena<sup>®</sup> Fluids DE** are available in ISO Viscosity Grades 100 and 150.

### Applications

- those compressor applications where the manufacturer recommends the use of diester base fluids
- both the crankcase and cylinders of reciprocating air compressors where fluids of their viscosity are recommended
- over a wider temperature range than is possible with many mineral oil-based products
- where fluorocarbon (Viton), fluorosilicone, polysulfide and high nitrile Buna-N elastomers are used
- not recommended for use where neoprene, natural rubber, styrene-butadiene rubber (SBR, Buna-S) or low nitrile Buna-N seals are present

Before converting to **Shell Corena<sup>®</sup> Fluids DE**, it is advisable to check with the equipment manufacturer regarding the compatibility of various components with diesters.

### Features/Benefits

- outstanding oxidation and thermal stability
- low varnish and carbon deposits
- excellent anti-wear and rust preventive properties
- extremely low volatility
- high flash and fire points
- low pour points
- start-ups at lower temperatures and very rapid fluid circulation
- high viscosity indices
- extended service life
- lower oil consumption

**Typical Properties of Shell Corena® Fluids DE**

	Test Method	ISO Viscosity Grade	
		100	150
Product Code		67227	67228
Density @ 60°F, lbs/gal		8.0	8.4
Viscosity:			
@ 40°C, cSt	D 445	94	141
@ 100°C, cSt	D 445	9.6	12.8
Flash Point, COC, °F	D 92	505	550
Pour Point, °F	D 97	-30	-25
Fire Point, COC, °F	D 92	560	600
Autoignition Temperature, °F	D 2155	800	830
Conradson Carbon Residue, wt%	D 189	0.02	0.02
Evaporation Loss, wt%, 22 hrs @ 210°F	D 972	0.1	0.1
Rust Prevention	D 665B	Pass	Pass
Demulsibility, 180°F,			
Separation time, minutes	D 1401	10	15
oil/water/emulsion, ml	D 1401	43/37/0	44/36/0
Four Ball Wear, 1200 rpm, 167°F, 40 kgf, 1hr, scar diameter, mm	D 2266	0.43	0.38

**Handling & Safety Information**

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.