Technical Data Sheet

Previous Name: **Shell Corena RS**

Shell **Corena** ***S3 RJ 32***

- *Long Oil Life*
- *Japanese Compressor Applications*

Premium Rotary Air Compressor Oil

Shell Corena S3 RJ is a high performance semi-synthetic air compressor oil designed to deliver reliable lubrication of Japanese manufactured oil flooded rotary air compressors.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Long oil life – Maintenance saving**

  Shell Corena S3 RJ uses a blend of synthetic and mineral oil components in combination with a high performance additive system to deliver extended oil life and maintenance capabilities.

  It is formulated to help:

- Resist formation of carbon deposits in vane compressors
- Resist formation of carbon deposits in screw compressors
- Maintain excellent internal surface cleanliness particularly in oil/air separator and coalescer systems.
- Exact oil maintenance interval will depend on intake air quality, duty cycle and ambient conditions. (consult OEM recommendations)
- **Outstanding wear protection**

  Shell Corena S3 RJ helps provide effective protection of internal metal surfaces from corrosion and wear.

  It contains a proven anti-wear system to help prolong the life of critical parts such as bearings and gears.

- **Maintaining system efficiency**

  Air release and prevention of foaming are critical performance characteristics in a compressor oil, ensuring reliable start-up and continuous compressed air availability.

  Shell Corena S3 RJ is designed to provide rapid air release without excessive foaming to give trouble-free operation even under cycling conditions.
  Shell Corena S3 RJ has low volatility and oil carryover properties to reduce oil top-up in combination with increased air quality.

Main Applications



- **Oil-flooded screw and rotary compressors**

  Suitable for oil flooded or oil injected air compressors, particularly those from Japanese manufacturers.

Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Compatibility & Miscibility

- **Seal Compatibility**

  Shell Corena S3 RJ oils are compatible with seal materials commonly specified for use in air compressors.

Typical Physical Characteristics

Properties			Method	Shell Corena S3 RJ 32
Viscosity Grade			ISO 3448	32
Kinematic Viscosity	@40°C	mm^2/s (cSt)	ASTM D 445	32
Kinematic Viscosity	@100°C	mm^2/s (cSt)	ASTM D 445	6.07
Density	@15°C	kg/m^3	ASTM D 1298	0.833
Flash Point (COC)		°C	ASTM D 92	240
Pour Point		°C	ASTM D 97	-30
Air Release		mins	ASTM D 3427	3

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

Health, Safety & Environment

- **Health and Safety**

  Shell Corena S3 RJ Oil is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

  Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

  Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from http://www.epc.shell.com/

- **Protect the Environment**

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

Additional Information

- **Advice**

  Advice on applications not covered here may be obtained from your Shell representative.

Viscosity - Temperature Diagram for Shell Corena S3 RJ

