

# DALGAKIRAN

## Technical Data Sheet

### SMARTOIL 3000

#### ROTARY AIR COMPRESSOR OIL

**Smartoil 3000**, is a premium quality air compressor oil designed to deliver high performance lubrication of rotary sliding vane and screw air compressors. It uses an advanced additive system to provide excellent protection and performance for compressors running at up to 20 bar and 100°C discharge temperatures with oil maintenance intervals of up to 6000 hours.

#### APPLICATIONS

##### Rotary sliding vane air compressors:

**Smartoil 3000**, is suitable for oil flooded or oil injected vane compressors, operating at pressures of up to 10 bar and with air discharge temperatures of up to 100°C.

##### Screw air compressors:

**Smartoil 3000**, is suitable for oil flooded or oil injected, single or two-stage rotary compressors, operating at pressures of up to 20 bar and with air discharge temperature of up to 100°C.

#### PERFORMANCE FEATURES

##### - Long oil life – Maintenance saving

**Smartoil 3000** is capable of providing oil maintenance intervals of up to 6000 hours (where allowed by manufacturers) even when operating at maximum discharge temperatures of up to 100°C.

- Resist formation of carbon deposits in sliding vane slots in vane compressors.

- Resist formation of deposits on rotating components in screw compressors.

- Resist thermal breakdown and deposit formation to 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. For hot and humid type climates as found in the Asian and Pacific regions, a reduced oil drain period is recommended (consult OEM recommendations).

##### - Outstanding Wear Protection

**Smartoil 3000** helps provide effective protection of internal metal surfaces from corrosion and water. It contains an advanced ashless anti-wear system to help prolong the life of critical parts such as bearings and gears.

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### - 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.

### Compatibility

**Smartoil 3000** oils are compatible with seal materials specified for use with mineral oils.

### Standards and Specifications

ISO 6743-3A-DAJ

### TYPICAL PHYSICAL CHARACTERISTICS

Smartoil 3000	Method	46
ISO Viscosity Grade	ISO 3448	46
Kinematic Viscosity @ 40°C mm <sup>2</sup> /s 100°C mm <sup>2</sup> /s	ASTM D 445	46 6.9
Density @ 15°C kg/m <sup>3</sup>	ASTM D 1298	868
Flash Point (COC) °C	ASTM D 92	230
Pour Point °C	ASTM D 97	<-27
Viscosity Index	ASTM D2270	105
Water Separability (mins)	ASTM D 1401	15
RPVOT (mins)	ASTM D 2272	700
FZG Test (LS Fail)	CEC-L-07-A-95	11
<i>These characteristics are typical of current production.</i>		

### HEALTH, SAFETY & ENVIRONMENT

#### Health and Safety

Smartoil 3000, is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personel hygiene are maintained.

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

#### Environment

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

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