

## Q8 Schumann

ISO VG 32 - ISO VG 68

Product Data Sheet

### Application

- Air compressors and vacuum pumps

### Specifications

- ISO/DP 6743/3, categories DAA-DAB-DAC-DAH-DAJ and DVA
- DIN 51506, category VDL
- DIN 51517, category CLP

### Benefits

- Extended drain periods of up to eight times mineral oils
- Compatible with mineral oils
- Compatible with normally used elastomers and plastic materials
- Energy saving and reduced oil consumption
- Reduced fire and explosion risks
- Less maintenance
- Outstanding low temperature startability
- Multi-purpose oil

### References

- Q8 Schumann exceeds current Standards and manufacturer requirements for air compressor and gear lubricants
- A TÜV test report of Q8 Schumann is available

### Formulation

- Polyalphaolefins
- Anti-wear/Extreme Pressure Additive
- Rust Inhibitor
- Anti-oxidant
- Anti-foam Agent

### Properties

	Method	Units	Inspection Data		
<b>Q8 Schumann</b>			<b>32</b>	<b>46</b>	<b>68</b>
ISO Viscosity Grade	-	-	32	46	68
Absolute Density, 15 °C	D 4052	kg/m <sup>3</sup>	830	835	837
Kinematic Viscosity, 40 °C	D 445	mm <sup>2</sup> /s	32.0	46.0	68.0
Kinematic Viscosity, 100 °C	D 445	mm <sup>2</sup> /s	5.95	7.66	10.30
Viscosity Index	D 2270	-	133	134	138
Flash Point	D 92	°C	224	238	254
Pour Point	D 97	°C	-54	-54	-54
Ash	D 482	% mass	0.01	0.01	0.01
Sulfated Ash	D 874	% mass	0.03	0.04	0.04
Colour	D 1500	-	L 1.0	L0.1	L0.1
Rust Test, Proc. A and B, 24 h	D 665	-	pass	pass	pass
Total Acid Number	D 974	mg KOH/g	0.72	0.72	0.72
Emulsion, Distilled Water, 54.4 °C	D 1401	-	40-40-0(10)	40-40-0(15)	40-40-0(15)
Foam, 5 min blowing, seq. 1/2/3	D 892	ml	0/0/0	0/0/0	5/10/5
10 min settling, seq. 1/2/3		ml	0/0/0	0/0/0	0/0/0
Air Release, 50 °C	DIN 51381	min	1	2	3
Pneurop Oxidation Test Value,	DIN 51352				
Part 2, 200 °C, Fe <sub>2</sub> O <sub>3</sub> , 4 x 6 h		-	0.3	0.4	0.4
FZG Test, A/8.3/90	DIN 51354	load stage	pass 12	pass 12	pass 12

# PRODUCT SAFETY DATA SHEET



Q8 Schumann

2006-08-03

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Q8 Schumann  
**Grades:** ISO VG 32, 46, 68, 100, 150, 220, 320, 460  
**Use:** Lubricating oil for air compressors  
**Company:** Kuwait Petroleum Research & Technology B.V.  
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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

No	Name	EC-No.	CAS-No.	%-mass	Symbol(s)	R Phrases
1	Poly alpha olefins	500-183-1	68037-01-4	90 - 98	-	-
2	Severely solvent refined mineral oil (IP346 DMSO extract < 3 %)	265-169-7	64742-65-0	2 - 10	-	-
3	Functional additives				-	-
4	Antioxidants			< 1	N	R51/53

No substances are present in concentrations regarded to present a hazard (Directive 1999/45/EC).  
The Symbols and R-phrases in section 2 apply only to individual constituents. See section 16 for the text of these R-phrases.

## 3. HAZARDS IDENTIFICATION

**Health:** Unlikely to cause eye irritation.  
Unlikely to cause skin irritation.  
Not volatile. It is not likely to be an inhalation hazard at normal ambient temperatures.  
Ingestion is unlikely to cause adverse systemic health effects.

**Environmental:** Although no specific ecological hazards are expected and bioaccumulation is unlikely, spillage into the environment should always be avoided.

**Physical / Chemical:** Not applicable

**Additional Information:** None

## 4. FIRST AID MEASURES

**Eyes:** Flush the eye with copious amounts of water. No emergency measures are necessary but if adverse eye effects follow, refer for medical attention.

**Skin:** Wash the contaminated skin thoroughly with soap and water. No emergency measures are necessary but if adverse skin effects follow, refer for medical attention.

**Inhalation:** Remove the affected person to fresh air. If recovery is not rapid, obtain medical attention.

**Ingestion:** DO NOT INDUCE VOMITING. No emergency measures are needed but if adverse health effects follow, refer for medical attention.

**Additional Information:**

## 5. FIREFIGHTING MEASURES

**Extinguishing media:** **Recommended:** Dry chemical, foam, CO2, water mist.  
**Not to be used:** Direct water jet. Use water ONLY to keep fire-exposed containers cool.

**Specific exposure hazards:**  
Slight flammability hazard when exposed to heat or flame.

**Special protective equipment for firefighters:**  
Use self-contained breathing equipment when fighting fire in confined spaces.

## 6. ACCIDENTAL RELEASE MEASURES

<u>Personal precautions:</u>	No special measures needed.
<u>Environmental precautions:</u>	Water may be used to flush spills away from sources of ignition. Do not allow the product to enter public drainage system or open water courses.
<u>Methods for cleaning up:</u>	Absorb and scrape up.
<u>Absorbent materials:</u>	Sand or active clay.

## 7. HANDLING AND STORAGE

<u>Handling:</u>	Avoid prolonged or repeated skin contact. Avoid inhalation of vapour, mist or fume. Do not wear contaminated clothing.
<u>Storage:</u>	Keep containers tightly closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Engineering measures:</u>	No special measures needed.
<u>Control parameters:</u>	TWA TLV (ACGIH) : 5 mg/m <sup>3</sup> for oil mist. However, in all circumstances exposure should be kept as low as reasonably possible by good ventilation and safe working practices.
<u>Respiratory protection:</u>	Inhalation of the vapours, fumes or mists should be avoided by safe working practices and good ventilation.
<u>Eye protection:</u>	If there is a risk of splashing while handling product, eye protection should be worn (e.g. full face shield or goggles with side shields).
<u>Hand/skin protection:</u>	No special precautions are needed beyond clean working conditions and safe handling practices. PVC or nitrile gloves may be suitable.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Oily liquid
Colour	: Light yellow
Appearance	: Bright & clear
Odour	: Weak
pH	: Neutral
Boiling range, °C	: Initial boiling point (oil base) > 350
Melting Point, °C	: -54 (VG 32, 46, 68); -48 (VG 100); -45 (VG 150); -39 (VG 220); -33 (VG 320); -27 (VG 460)
Flash Point, °C	: > 200 (ASTM D92, COC)
Autoflammability/ ignition, °C	: > 300 (oil base)
Upper explosion limit	: Not known
Lower explosion limit	: Not known
Vapour pressure, 20 °C, kPa	: < 0.01 (oil base)
Viscosity, kinematic, 40 °C, mm <sup>2</sup> /s	: Indicated by grade designation.
Relative density, 15 °C	: 0.83 - 0.85
Water solubility	: Not soluble
Partition coefficient, n-octanol/water	: Not known
Other data	:
	:

## 10. STABILITY AND REACTIVITY

<u>Conditions / materials to avoid:</u>	Stable. May react with strong oxidizing agents.
<u>Hazardous decomposition products:</u>	Thermal decomposition or incomplete combustion may produce oxides of carbon and irritating fumes.

## 11. TOXICOLOGICAL INFORMATION

<u>Eyes:</u>	Unlikely to cause eye irritation.
<u>Skin:</u>	Unlikely to cause skin irritation.
<u>Inhalation:</u>	Not volatile. It is not likely to be an inhalation hazard at normal ambient temperatures.
<u>Ingestion:</u>	Ingestion is unlikely to cause adverse systemic health effects.
<u>Other:</u>	The base oils used in the formulation of this product are of a low order of toxicity in test animals. LD50 (rat) for base oils is above 5 g/kg .

<b>12.</b>	<b>ECOLOGICAL INFORMATION</b>
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<u>Mobility:</u>	Little mobility in soil. Some components may penetrate the soil causing ground water pollution. Will spread on the water surface. A small portion may be dispersed in water.
<u>Degradability:</u>	Not readily biodegradable.
<u>Ecotoxicity/bioaccumulation:</u>	The base oil components are not expected to be dangerous to the aquatic environment. Contains a small amount of additive components classified as dangerous to the aquatic environment. WGK:2

<b>13.</b>	<b>DISPOSAL CONSIDERATIONS</b>
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Transport to authorized waste location, or incinerate under controlled conditions (EU Directives 2000/76/EC and 1999/31/EC apply).  
European Waste Catalogue Code 13 02 05: mineral-based non-chlorinated engine, gear and lubricating oils

<b>14.</b>	<b>TRANSPORT INFORMATION</b>
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<u>UN-no:</u>	Not classified
<u>RID / ADR:</u>	Not classified
<u>IMO:</u>	Not classified
<u>IATA / ICAO:</u>	Not classified
<u>Other:</u>	

<b>15.</b>	<b>REGULATORY INFORMATION</b>
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<u>EC Labelling / Classification:</u>	
<u>Symbol(s):</u>	None
<u>Contains:</u>	
<u>R phrases:</u>	None
<u>S phrases:</u>	None
<u>Other regulations:</u>	

<b>16.</b>	<b>OTHER INFORMATION</b>
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Text of R-phrases indicated in section 2:  
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Replaces sheet dated: 2002-11-27

Sections revised: 1

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Customers are responsible for the proper storage, use and handling of the product and for determining whether the product is fit for the use to which it is put. The information does not describe health and safety aspects of the product once it has been misused or mishandled or when it is mixed with any other product. This document is in accordance with 2001/58/EC and ISO 11014-1.

