

## **Technical Data Sheet**

## Vacuum Pump Oil ISO 100

**TMS Vacuum Pump Oil ISO 100** is formulated from selected premium performance, highly refined mineral oils. This provides the low vapor pressure and high performance, desired for the effective lubrication of rotary vacuum pumps.

#### **FEATURES**

- Maintenance savings TMS Vacuum Pump Oil ISO 100 is formulated to provide excellent resistance to oil degredation. This ensures the oil will provide a long service life as well as reduced tendency for sludge build up and deposit formation.
- Increased wear and corrosion protection TMS Vacuum Pump Oil ISO 100 helps provide effective protection of internal metal surfaces from corrosion and wear.
- **System efficiency** The selection of low vapor pressure base oils with a narrow boiling range enables the pump to efficiently work at the vacuum for which it is designed over the extended maintenance period.
- Rotary vacuum pumps TMS Vacuum Pump Oil ISO 100 is designed for use in rotary and sliding vane vacuum pumps. It can be used to provide low vacuum pressures. It is suitable for most industrial rotary vacuum pump applications.
- Standard operating environments TMS Vacuum Pump Oil ISO 100 is suitable for applications where ambient temperatures are above 0°C and where maximum operating temperatures do not exceed 100°C. Maximum vacuum pressure capability generally tends to decrease as the pump operating temperatures increase. TMS Vacuum Pump Oil ISO 100 is suitable for vacuum pumps working in a vacuum range of 100 mbar 10<sup>-2</sup> mbar. TMS Vacuum Pump Oil ISO 100 is not recommended for use when corrosive gasses or chemical vapors are involved in the extraction process.

#### APPLICATIONS

- ISO 6743-3A-DVC
- Typical Physical Characteristics

-7F1								
Properties			Method	TMS Vacuum Pump Oil ISO 100				
ISO Viscosity grade			ISO 3448	100				
Kinematic Viscosity	@40°C	cSt	ASTM D445	108				
Kinematic Viscosity	@100°C	cSt	ASTM D445	11.8				
Density	@15°C	kg/m³	ASTM D1298	882				
Flash Point COC		°C	ASTM D92	265				
Pour Point		С	ASTM D97	-9				
Neutralisation value		mg KOH/g	ASTM D947	< 0.04				
Ash, sulphated		%	DIN 5175	<0.01				



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#### **APPLICATIONS**

				TMS Vacuum
				Pump Oil ISO
Properties			Method	100
Conradson Carbon Residue		%m	DIN 51551	0.05
Vapor pressure versus temperature, Isoteniscope	@0°C	mbar	ASTM D2879	8.40E-06
Vapor pressure versus temperature, Isoteniscope	@25°C	mbar	ASTM D2879	5.33E-05
Vapor pressure versus temperature, Isoteniscope	@50°C	mbar	ASTM D2879	4.67E-04
Vapor pressure versus temperature, Isoteniscope	@100°C	mbar	ASTM D2879	8.40E-03
Vapor pressure versus temperature, Isoteniscope	@150°C	mbar	ASTM D2879	0.11
Vapor pressure versus temperature, Isoteniscope	@200°C	mbar	ASTM D2879	0.53

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

### Health, Safety & Environment

- Health and Safety TMS Vacuum Pump Oil ISO 100 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 Safety Data Sheet.
- **Protect the Environment** Take used oin to an authorized collection point. Do not discharge into drains, soil or water.