



Basic Condition Monitoring



SKF Product Data Sheet

Handheld viscometer TMVM 1

Reduce costly and time consuming laboratory analyses

The SKF viscometer TMVM 1 is a handheld rotational viscometer for quick and reliable viscosity measurements of lubrication oils and hydraulic fluids. It is suitable for both quantitative and qualitative measurements.

The TMVM 1 is a first check device for carrying out on-site measurements. Regular viscosity checks help provide timely information regarding oil condition, which can have an effect on lubrication and machine performance.



- Compact light-weight design and portability of the viscometer make it an essential device for field service engineers and other field operators
- Supplied standard with a rotor suitable for viscosity range between 30 and 1300 mPas covering the viscosity range relating to the greater majority of lubrication oils
- Ergonomic design makes it easy to operate with one hand
- Direct read out eliminates the need for further complex laborious calculations

- Use of supplied measuring cup helps ensure reproducible measuring conditions for accurate measurements
- Excellent repeatability allowing reliable trending of oil condition
- Recalibration message displayed on the viscometer allows timely recalibration
- Alternative rotors available as accessories make viscosity measurement of other fluids possible

- Battery (4 x AA alkaline) operated, does not require a mains electrical supply therefore a convenient instrument for field tests
- Supplied in a sturdy carrying case for ease of portability



Technical data

Designation	TMVM 1
Description	Handheld viscometer
Dynamic viscosity range (mPas)	30-1300 with Rotor 3 (30-400.000 using optional rotors)
Motor rated voltage	4.0 VDC
Motor rated speed	62.5 rpm
Rotor supplied	R3
Repeatability	< 1 % of total range
Accuracy	± 3 % of total range with supplied rotor R3
Operating temperature	10 °C – 40 °C (50 °F-104 °F)
Oil sample volume	Approx. 150 ml (5.1 US fl.oz)
Viscometer dimension (w x d x h)	175 x 88 x 170 mm (6.8 x 3.4 x 6.6 in)
Rotor dimension	D=45.1 mm (1.7 in) h=47 mm (1.8 in)
Rotor material	Stainless steel
Measuring cup dimension	D=52.6 mm (2.0 in) h=75 mm (2.9in)
Measuring cup material	Stainless steel
Battery	4 x AA (IEC type LR06) alkaline
Total weight (including case)	2.0 kg (4.4 lbs)
Packaging	Sturdy carrying case
Certificate of calibration	Yes

SKF Maintenance Products

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