

1. General

Silox is a synthetic oil belonging to the group of polydimethyl siloxane. It is colourless and clear with a weak odour.

2. Application

Silox can be used in all **RITTER** Drum-type Gas Meters. As opposed to water as a Packing Fluid, Silox can be used under 0°C. It also has a lower evaporation rate in combination with a viscosity similar to water. Because of this, the Packing Liquid level remains stable over a longer period of time. This leads to an improvement in the repeatability of measurement results, and in a reduction in the required frequency of Packing Liquid level monitoring.

The use of Silox is further recommended when the gas should remain dry or when the gas reacts with water.

3. Advantages

- Use under 0°C (down to -40°C)
- less evaporation than water due to its lower vapour pressure, resulting in greater stability of the Packing Fluid level and in more consistent measurement result
- the gas remains dry
- in general, a lower chemical reactivity than water

4. Properties

Chemical name:	cyclic polydimethyl siloxane		
Viscosity:	20 °C	4	cSt (=mm ² /sec=mPa.sec
	25 °C	4	cSt
Density:	15 °C	0.96	g/ml
	25 °C	0.95	g/ml
	50 °C	0.93	g/ml
Vapour pressure:	20 °C	0.16	mbar (=hPa)
	50 °C	38	mbar
Boiling Point:	205 °C		
Pour point:	-40 °C		
Flash point:	76 °C		
Ignition temperature:	450 °C		
Appearance:	clear, colourless fluid with a weak odour		