



**Packing Fluid for Ritter Gas Meters
Autin-B
Data Sheet**

01.38
V 1.0
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1. General

Autin-B is a Paraffin Oil (white oil) without Polyolefin. It is colourless, clear and odourless.

2. Application

Autin-B can be used in all **RITTER** Drum-type Gas Meters. As opposed to water as a Packing Fluid, Autin-B can be used under 0°C. It also has a lower evaporation rate. 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 Autin-B is further recommended when the gas should remain dry or when the gas reacts with water.

Not appropriate for chlorine gas.

3. Advantages

- Use under 0°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 with water

4. Solubility (Bunsen^{*} coefficient at 1013 mbar, 20°C)

| | |
|----------------|-----------|
| Air | 0.07-0.08 |
| Ammonia | 0.18 |
| Carbon Dioxide | 0.90 |
| Nitrogen | 0.06 |
| Oxygen | 0.12 |

* Bunsen coefficient (N ml/ml): volume of gas, reduced to Normal condition (1013 mbar, 0°C), dissolved in the volume unit of fluid.

5. Properties

| | | |
|-------------------------|------------------------------------|----------------------------------|
| Viscosity: | 20 °C | 37.0 cSt (=mm ² /sec) |
| | 40 °C | 16.0 cSt |
| | 100 °C | 3.6 cSt |
| Density: | 15 °C | 0.85 g/ml |
| Vapour pressure: | 20 °C | < 0.1 mbar |
| Boiling range: | 335-410 °C | |
| Pour point: | -24 °C | |
| Flashpoint: | >150 °C | |
| Appearance: | Colourless, clear. odourless fluid | |

