

Information about Oil for Manual Injectors



Generally, manual injectors are used with a syringe, tubing and an injection holder filled with oil.

In oil injectors, movement made by rotation of the handle transmits proportionately toward the end of the injection holder through the oil.

By utilizing oil for power transmission, it allows you to control the oil surface in a pipette, under a microscope, just as you feel the movement synchronizing the operation.

Pneumatic injectors(IM-9C etc.) are used without oil.

< POINT 1 >

Our injectors do not come with any specific oil to use. This is because various types of oil are available and can be chosen according to individual preference. This allows the user to choose the most suitable oil for his or her purposes.

Filling Oil

Generally speaking, when choosing an oil, the following factors should be considered: transparent or colorless, harmless, easy to obtain, not mixed with water, easy to find a border with water, viscosity, etc.

* These oils are the most common types of used with oil injectors.

- ◇ **Silicone oil**
- ◇ **Mineral oil**
- ◇ **Paraffin oil**
- ◇ **Fluorinert**

Distilled water is also available.

< POINT 2 >

Viscosity of oil changes operability of injector.

(e.g. Silicone Oil)

Many types of silicone oil are found on the market.

If you fill high viscosity oil (thick oil) in injectors Operation feels slow.

If you fill low viscosity oil (thin oil) in injectors Operation feels fast.

Some users take such properties into consideration when selecting oil, while others adjust viscosity to their preference by mixing silicone oils of different viscosity.

*Silicone oil is not a medical product. Please select the oil most suitable for your experiments.

If you have further questions, please feel free to contact us.

NARISHIGE Customer Support Center

E-MAIL: sales@narishige.co.jp