

## Hoses

All circulators and cryostats are always delivered with nozzles for tubings with an inner Ø of 8 and 12 mm. The tubings and insulation (if applicable) have to be ordered separately and should be selected according to the application.

### Description

Insulated metal tubing made from stainless steel with M 16 x 1 unions on both ends. To be used from -50 to +300°C.

50 cm long

100 cm long

150 cm long

Coupling to connect 2 tubings to each other

Coupling for circulation set C-/DC-line

Insulated metal tubing made from stainless steel with M 16 x 1 unions on both ends. Especially for the low temperature range -90..105°C

100 cm long

150 cm long

Coupling to connect 2 tubings to each other

Coupling for circulation set C-/DC-line

PVC tubing to be used only with water

8 mm id, per meter

12 mm id, per meter

Viton tubing for a temperature range of -60 to + 200°C

8 mm id, per meter

12 mm id, per meter

Silicone tubing for a temperature range of -30 to + 220°C (not to be used with any silicone oil.)

8 mm id, per meter

12 mm id, per meter

Perbunan tubing for a temperature range of -40 to + 100°C

8 mm id, per meter

12 mm id, per meter

Foam rubber insulation for PVC, Viton, silicone and Perbunan tubings

for tubings with 8 mm id, per meter

for tubings with 12 mm id, per meter

### Order-No.

333-0292

333-0293

333-0294

001-2560

333-0302

333-0578

333-0579

001-2560

333-0302

082-0745

082-0304

082-1214

082-1215

082-0663

082-0664

082-0172

082-0173

806-0373

806-0374

## Bath Liquids

The carefully selected and proven heat transfer liquids offer the following advantages:

- Eliminates health hazards and minimises unpleasant odours.
- High resistance against aging while retaining a low viscosity with a low corrosive tendency.

Note: Good ventilation is recommended when working at temperatures >200°C.

### 1. Viscosity

For optimum temperature accuracy it is very important that the heat transfer liquid be of low viscosity.

### 2. Fire Point

Flammable thermal liquids can ignite when a specified temperature is surpassed. The usage of bath liquids is limited to a temperature level 25°C below the fire point as defined by the EN 61010.

### 3. Selection

Silicone oils (Sil):

Carry a low risk of inflammation, do not give off unpleasant odors and have a long service life.

Synthetic thermal liquids (Synth):

Are mainly produced on a hydrocarbon basis and exhibit a low viscosity within the recommended working temperature range.

### 4. Application Range

Working temperature range:

This is the range within which the circulator can be operated optimally over a longer period of time.

The maximum viscosity is approx. 5 mPas.

Operating temperature range:

The circulator may be operated only within this range over a longer period of time under certain conditions. Viscosity may rise to a maximum of 30 mPas. The pump capacity no longer matches the specifications made in the brochure.

Heating range:

Long-term temperature control in this range is not permissible as the pump motor's excess temperature protection may switch off the pump.

