

Good cleaning guarantees precise and reproducible results.

Basic tips

Incorrect cleaning is the primary reason for incorrect measurement results

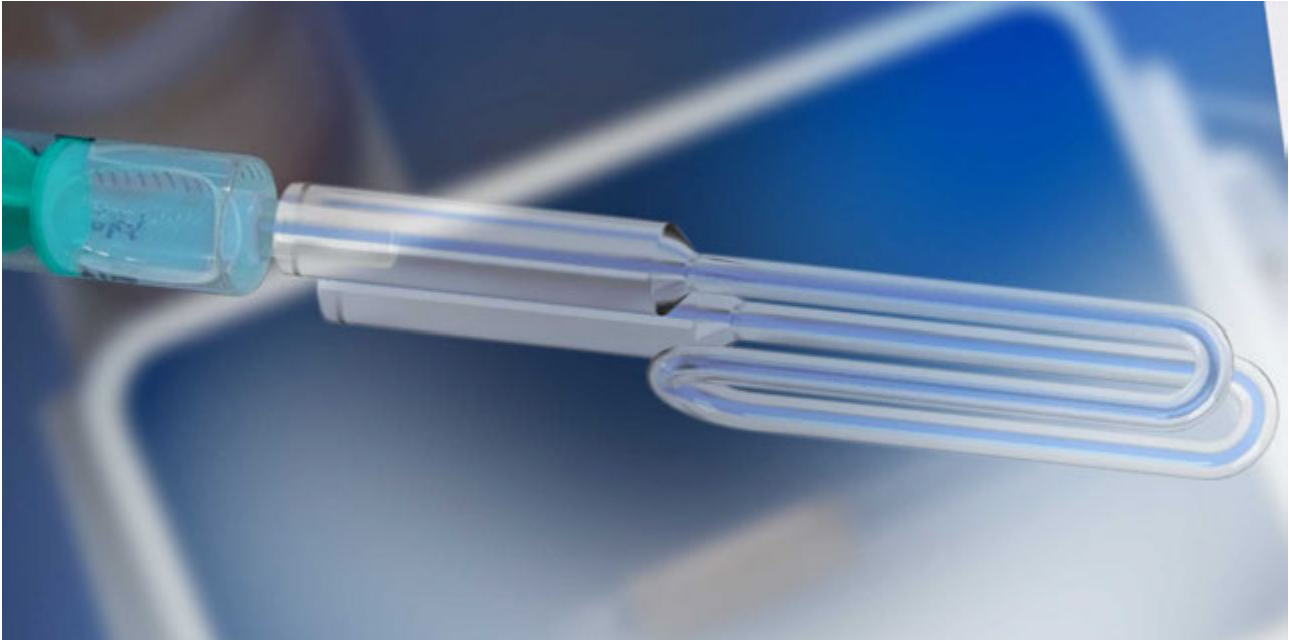
Make sure the measurement cell does not retain any residues from previously measured samples or rinsing solutions. Deposits of previously measured products are not always visible. For example, if products containing oil or grease are measured, a very thin film of oil may be deposited on the measuring cell.

For this reason, cleaning and subsequent control measurement immediately after the measurement is particularly important.

Depending on the measured sample, a fitting solvent must be chosen for the cleaning. It may make sense to carry out the cleaning with two different solvents in order to save time during the subsequent drying. This can become especially important when operating an autosampler. The displacement of previous samples with a new sample is another frequently used application that saves time.

Cleaning: The oscillating U-tube system is flushed with the appropriate medium via syringe or peristaltic pump. Afterwards, just press a button and the drying unit removes all liquid residues. You can also configure cleaning procedures with semi-automatic or fully automatic drying.

Tip: A test measurement can determine the U tube oscillator's cleanliness and dryness. Dry air at 20 °C and normal air pressure should give a measured value of about 0.0012 g/cm³..



Tips for the professional cleaning of density meters



Recommended cleaning agents

We have experienced our best cleaning results with the following cleaning agents:

SAMPLE	CLEANING AGENT 1	CLEANING AGENT 2
Industry: Food, beverages and liquors		
▪ Fruit juices	▪ Water	▪ Ethanol
▪ Soft drinks	▪ Water	▪ Ethanol
▪ Salad dressing, mayonnaise	▪ Cleaner benzine	▪ Ethanol
▪ Beer, beer wort	▪ Water, enzymatic laboratory cleaner (3 % Mucosol)	▪ Ethanol
▪ Spirits	▪ Ethanol	▪ -----
Industry: Chemicals, Cosmetics, Pharmaceutical		
▪ Flavours, fragrances, perfume	▪ Ethanol, Isopropyl	▪ -----
▪ Shampoo	▪ Water	▪ Ethanol
▪ Detergents, liquid soap	▪ Water	▪ Ethanol
▪ Suntan lotion	▪ Cleaner benzine	▪ Ethanol
▪ Polyamides, polymers	▪ Cresol	▪ -----
▪ Paraffinic substances	▪ Toluene	▪ Xylene, cleaner benzine
▪ Turpentine-based wood preservatives	▪ Cleaner benzine	▪ Ethanol
▪ Water-based wood protection agents	▪ Water	▪ Ethanol
Industry: Petrochemical		
▪ Engine oil, lubricant oil	▪ Cleaner benzine	▪ Acetone
▪ Brake fluid (ethylene glycol)	▪ Xylol	▪ -----
▪ Diesel, paraffin, aviation fuel and heating oil	▪ Cleaner benzine, Petroleum ether	▪ Acetone