



# Let it Flow

For mastering highly viscous liquids – the Eppendorf ViscoTip®



**Have you ever experienced the limits of your tips and tools when handling highly viscous liquids?**

The new Multipette consumable ViscoTip® is specialized on tough-to-handle liquids like cream.

Therefore, ViscoTip naturally expands the broad range of applications for our often copied, never equaled Combitips advanced® and the Multipette® system. For fast, precise and safe liquid handling.

# Aspirate Once, Pipette Many Times

Even challenging liquids used in daily routine that might normally need recalibration of your instrument are handled precise, safe and easy. Get your mind and hands free!



## Easy and safe handling.

Automatic tip volume recognition, display of selected dispensing volume and a step counter make cumbersome calculations super-fluous and daily routine safer and easier.



## Single aspiration + multiple pipetting steps = multi dispensing.

Save time by dispensing up to 100 times with one filling and highest precision in every step. The one-handed and contact-free ejection of tips with secured sealed liquids for safer and faster work.

## Direct displacement pipetting

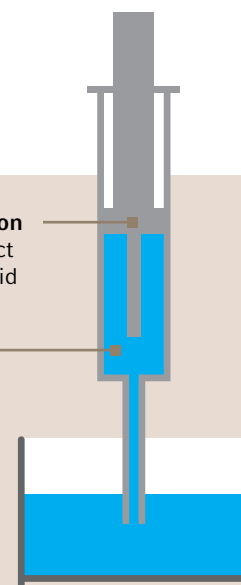
Unlike the air-cushion technology in regular pipettes, this liquid handling technology works like a syringe. This ensures that the correct volume is dispensed regardless of density, viscosity, volatility or temperature of the liquid. Main advantages of direct displacement compared to widely used air-cushion pipettes:

- > Handling of non-aqueous liquids without cumbersome recalibration of your pipette to achieve high precision
- > Prevents aerosol contamination with sealed piston for secure dispensing
- > Provides protection from radioactive and toxic substances

## Sealing Piston

Direct contact with the liquid

## Cylinder



Learn more about handling non-aqueous solutions and the Multipette system at: [www.eppendorf.com/multipette-system](http://www.eppendorf.com/multipette-system)

**ViscoTip and Combitips advanced for handling challenging liquids. Experience the new member of the Combitips advanced dispenser tip family.**

NEW: Specifically designed and optimized for handling high viscosity liquids up to 14.000 mPa\*s

NEW: Increase ergonomics, working speed and battery life time of your Multipette

NEW: Color coded double ring and special volume scale for distinction from other tip family members



Liquid property	ViscoTip®	Combitips advanced®
Viscosity < 200 mPa* s (< Glycerol 93 % at 20 °C)	–	✓
Viscosity 200 mPa* s - 14.000 mPa* s	✓	–
Foaming liquids (e.g. high protein content)	✓	✓
Density higher than water (e.g. sulfuric acid)	✓	✓
High vapor pressure (e.g. ethanol, acetone)	–	✓
Infectious/radioactive/toxic (e.g. Blood, Serum)	✓	✓
Detergent containing (e.g. PCR Mastermix)	✓	✓
Liquid temperature different from room temperature	✓	✓
<b>Tip property/Instrument interaction</b>		
Free of leachables (e.g. slip agents, plasticisers, biocides)	✓	✓
Automatic tip volume recognition (by Eppendorf dispensers only)	✓	✓
Distinctive color coding	✓	✓



> Further information about the ViscoTip and Combitips advanced challenging difficult liquids at:  
[www.eppendorf.com/pipetting](http://www.eppendorf.com/pipetting)

# The Eppendorf ViscoTip®

## Don't waste time to calculate

Automatic tip recognition and volume calculation in Multipette M4/E3(x).

## Free of leachables and slip agents

The ViscoTip is free of experiment-interfering leachables (e.g. slip agents, biocides, plasticisers).

## Save time to find the right tip

The color coded double ring and the continuous volume scale distinct the ViscoTip from Combipips advanced.

## Make life easier for your instrument

The new design of the tip features significantly lower operation forces, thus it speeds up work and reduces energy consumption.

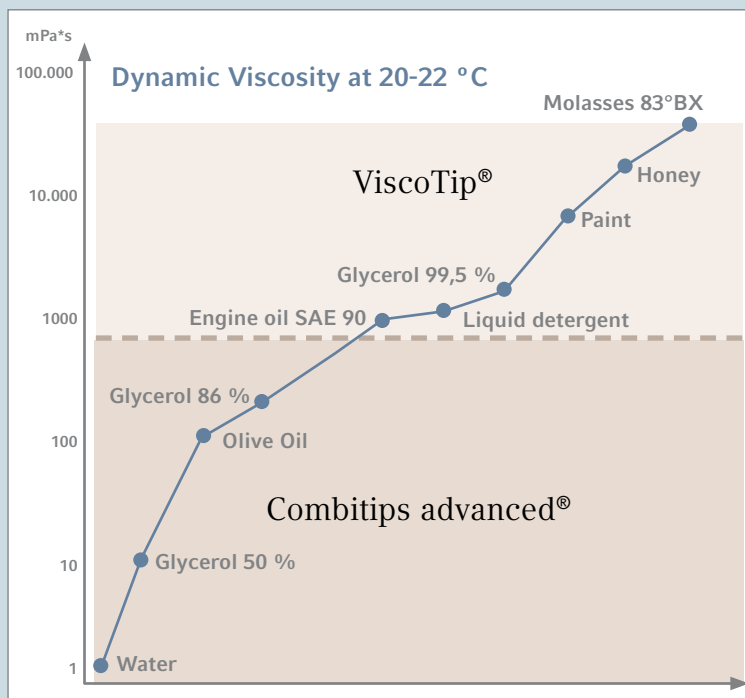
## Viscosity Check: ViscoTip vs. Combipips advanced

Viscous liquids, especially with a dynamic viscosity of  $> 200 \text{ mPa}\cdot\text{s}$ , have a high resistance to flow into and within pipettes/dispensers.

The ViscoTip is specialized on a dynamic viscosity beyond  $200 \text{ mPa}\cdot\text{s}$  to up to  $14,000 \text{ mPa}\cdot\text{s}$ . This leads to an extended application range, increased ergonomics, increased working speed and enhanced performance of the electronic Multipette E3(x) system.

### Exemplary liquids:

- > Glycerol 99.5 %
- > Tween® 20, Triton® X-100, collagen
- > Engine oil SAE 90
- > Liquid detergent
- > Paints
- > Liquid Honey, mustard, tomato sauce
- > Nail polish, ointments, shampoo
- > Molasses 83°BX



> More information about the Eppendorf ViscoTip at: [www.eppendorf.com/viscotip](http://www.eppendorf.com/viscotip)



## Ordering information

Eppendorf Combitips advanced®	Color Code	Eppendorf Quality™ 100 pcs. (4 bags × 25 pcs.)	PCR clean 100 pcs. (4 reclosable bags × 25 pcs.)	Eppendorf Biopur® 100 pcs., individually blister-wrapped	Forensic DNA Grade 100 pcs., individually blister-wrapped
0.1 mL	□ white	0030 089.405	0030 089.766	0030 089.618	
0.2 mL	□ light blue	0030 089.413	0030 089.774	0030 089.626	
0.5 mL	□ violet	0030 089.421	0030 089.782	0030 089.634	
1.0 mL	□ yellow	0030 089.430	0030 089.790	0030 089.642	0030 089.855
2.5 mL	□ green	0030 089.448	0030 089.804	0030 089.650	0030 089.863
5.0 mL	□ blue	0030 089.456	0030 089.812	0030 089.669	0030 089.871
10 mL	□ orange	0030 089.464	0030 089.820	0030 089.677	
25 mL	□ red	0030 089.472	0030 089.839	0030 089.685	
50 mL	□ light gray	0030 089.480	0030 089.847	0030 089.693	
<b>Eppendorf ViscoTip®</b>					
10 mL	□ double orange	0030 089.502			
<b>Multipette® E3</b> , single-channel, with charging cable and Combitips advanced® assortment pack (1 Combitip of each size), 1 µL – 50 mL					4987 000.010
<b>Multipette® E3x</b> , single-channel, with charging cable and Combitips advanced® assortment pack (1 Combitip of each size), 1 µL – 50 mL					4987 000.029
<b>Multipette® M4</b> , single-channel, 1 µL – 10 mL					4982 000.012
<b>Multipette® M4 Starter Kit</b> , single-channel, Multipette® M4, Combitip Rack, Combitip assortment pack, 1 µL – 10 mL					4982 000.314

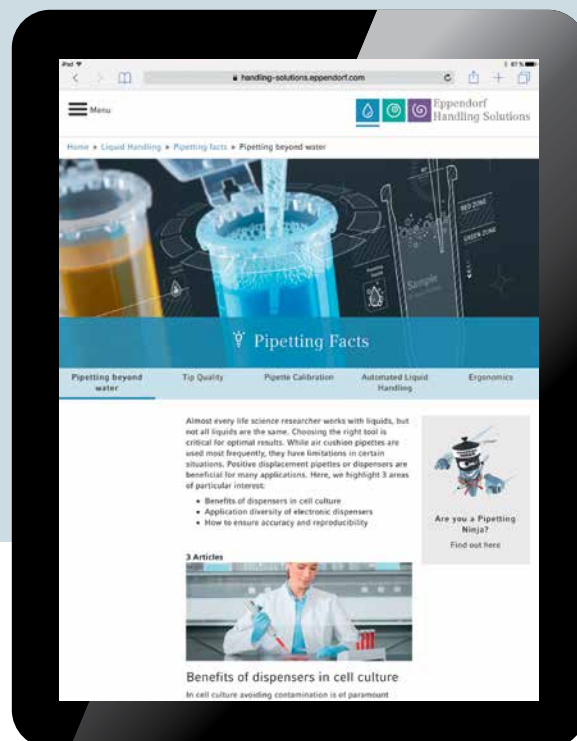
## Increase your knowledge and become a liquid handling professional!

Are you working with the following liquids?

- > Viscous
- > Foaming
- > High vapor pressure
- > High density
- > Infectious



> Learn more about professional handling of challenging liquids:  
[www.eppendorf.com/pipetting](http://www.eppendorf.com/pipetting)



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[eppendorf@eppendorf.com](mailto:eppendorf@eppendorf.com) · [www.eppendorf.com](http://www.eppendorf.com)

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