



# 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 Repeater® multi-dispenser tip ViscoTip® is specialized for tough-to-handle liquids like cream. Therefore, ViscoTip naturally expands the broad range of applications for our often copied, never equaled Repeater/Combitips® advanced system. For fast, precise and safe liquid handling.

# Aspirate Once, Pipette Many Times

Even challenging liquids used in daily routine that might usually need an adjustment of your instrument are handled precisely, 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 superfluous and daily routine more safe and easy.



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

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

## Positive displacement pipetting

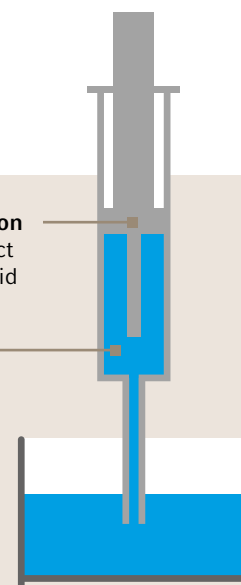
Unlike the air-cushion technology in regular pipettes, this liquid handling technology works like a syringe. This ensures that the correct volume is dispensed regardless of density, viscosity, volatility or temperature of the liquid. Main advantages of positive displacement systems compared to widely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

- > Handling of non-aqueous liquids without cumbersome adjustment 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 Repeater system at: [www.eppendorf.com/repeater-system](http://www.eppendorf.com/repeater-system)



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

- > Specifically designed and optimized for handling high viscosity liquids up to 14.000 mPa\*s
- > Increase ergonomics, working speed and battery life time of your Repeater
- > 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 on how to deal with difficult liquids at: [www.eppendorf.com/pipetting](http://www.eppendorf.com/pipetting)

# ViscoTip® Multi-Dispenser Tips

## Don't waste time to calculate

Automatic tip recognition and volume calculation in Repeater 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 Combitips 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.

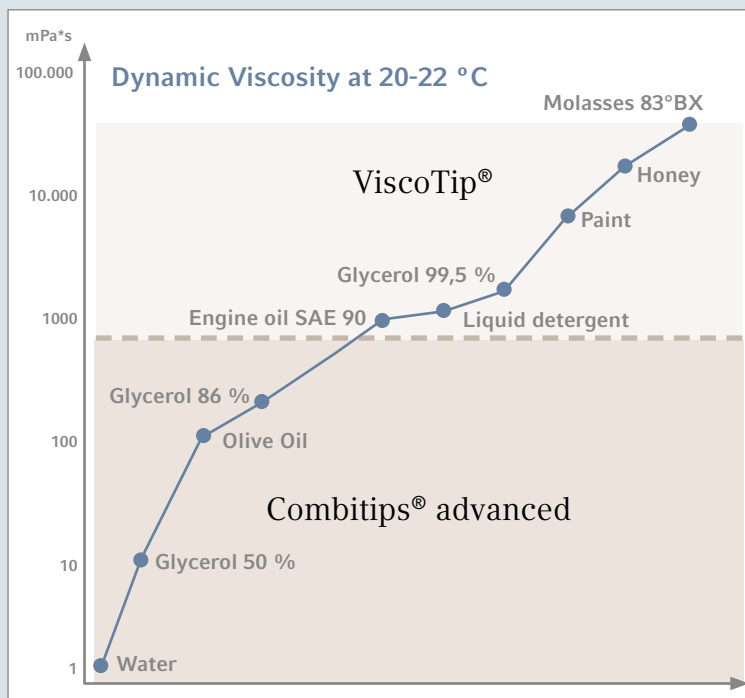
## Viscosity Check: ViscoTip vs. Combitips advanced

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

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 Repeater 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 ViscoTip at: [www.eppendorf.com/viscotip](http://www.eppendorf.com/viscotip)

## Ordering information

Combitips® advanced	Color code	Eppendorf Quality 100 pcs. (4 bags × 25 pcs.)	PCR clean 100 pcs. (4 reclosable bags × 25 pcs.)	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 <sup>1)</sup>	■ red	0030 089 472	0030 089 839	0030 089 685	
50 mL <sup>1)</sup>	■ light gray	0030 089 480	0030 089 847	0030 089 693	
<b>ViscoTip®</b>					
10 mL	■ orange	0030 089 502			
<b>Accessories</b>					
<b>Adapter advanced</b>					
25 mL, autoclavable, 1 piece	■ red	0030 089 715			
25 mL, autoclavable, 7 pcs., individually wrapped	■ red			0030 089 731	
50 mL, autoclavable, 1 piece	■ light gray	0030 089 723			
50 mL, autoclavable, 7 pcs., individually wrapped	■ light gray			0030 089 740	
<b>Combitips® advanced Box 2.0</b> , for 8 Combitips® advanced (0.1 – 10 mL), Eppendorf Quality, 1 piece		0030 089 952			
<b>Combitips® advanced Assortment Pack</b> , contains one Combitips® advanced sample of each size and Adapter advanced 25 and 50 mL, Eppendorf Quality		0030 089 936			

<sup>1)</sup> 4 boxes of 25 pcs. each. Each box containing one adapter.

For more information, technical specifications and article numbers of the corresponding Repeater multi-dispensers, visit [www.eppendorf.com/m4](http://www.eppendorf.com/m4) for Repeater M4 and [www.eppendorf.com/e3](http://www.eppendorf.com/e3) for Repeater E3(x) electronic devices.

## The Science of Pipetting to Perfection

Do you already know everything there is to know about pipetting? We have created a comprehensive guidebook to help you carry out good science.

Discover what you should consider before selecting a new pipette and how correct usage and careful maintenance will ensure your instrument always functions at peak performance.



Download your copy today:  
[www.eppendorf.link/pipetting-ebook](http://www.eppendorf.link/pipetting-ebook)



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