



# 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 Repeater 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 Repeater 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

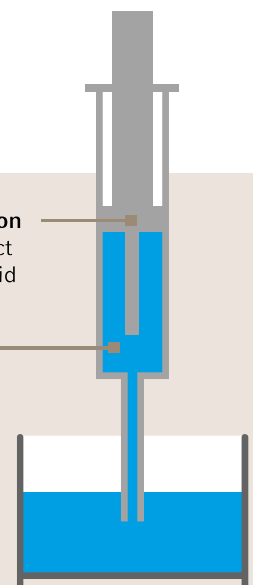
Unlike the air-cushion technology in regular pipettes, this liquid handling technology works like a syringe. This ensures that the correct volume is dispensed regardless of density, viscosity, volatility or temperature of the liquid. Main advantages of direct displacement compared to widely used air-cushion 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 Repeater system at: [www.eppendorf.com/repeater-system](http://www.eppendorf.com/repeater-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 Repeater

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  | ✓         | ✓                   |



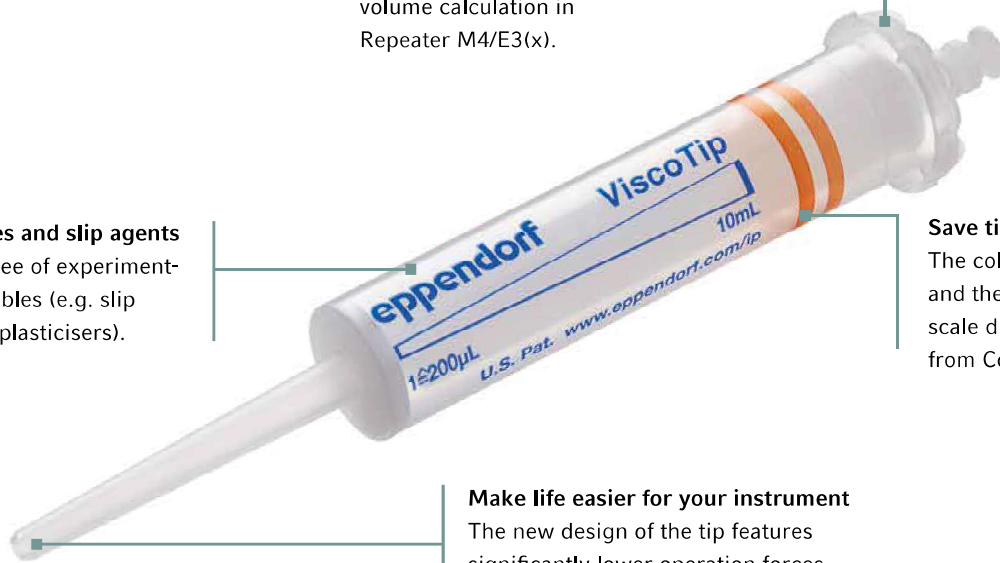
> Further information about the ViscoTip and Combitips advanced challenging difficult liquids at: [www.eppendorf.com/pipetting](http://www.eppendorf.com/pipetting)

# The Eppendorf ViscoTip®

**Don't waste time to calculate**  
Automatic tip recognition and volume calculation in 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.

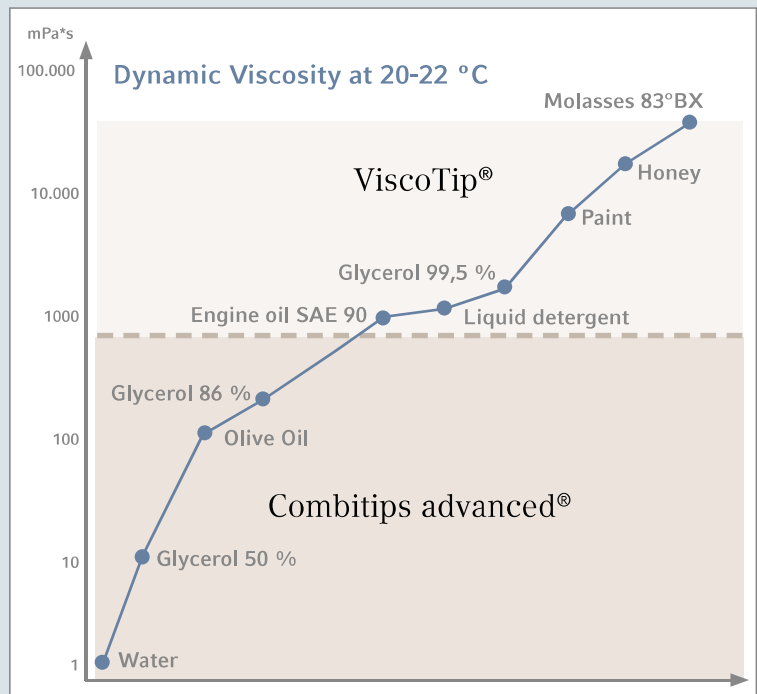
## Viscosity Check: ViscoTip vs. Combitips advanced

Viscous liquids, especially with a dynamic viscosity of  $> 200 \text{ mPa}\cdot\text{s}$ , have a high resistance to flow into and within 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 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 Eppendorf ViscoTip at: [www.eppendorf.com/viscotip](http://www.eppendorf.com/viscotip)

## Ordering information

| Eppendorf Combitips advanced®  | Color Code  | Eppendorf Quality™<br>100 pcs.<br>(4 bags x 25 pcs.) | PCR clean<br>100 pcs. (4 reclosable<br>bags x 25 pcs.) | Eppendorf Biopur®<br>100 pcs., individually<br>blister-wrapped | Forensic DNA Grade<br>100 pcs., individually<br>blister-wrapped |
|--|---|--|--|--|---|
| 0.1 mL   |  white         | 0030089405   | 0030089766   | 0030089618   |   |
| 0.2 mL   |  light blue    | 0030089413   | 0030089774   | 0030089626   |   |
| 0.5 mL   |  violet        | 0030089421   | 0030089782   | 0030089634   |   |
| 1.0 mL   |  yellow        | 0030089430   | 0030089790   | 0030089642   | 0030089855  |
| 2.5 mL   |  green         | 0030089448   | 0030089804   | 0030089650   | 0030089863  |
| 5.0 mL   |  blue          | 0030089456   | 0030089812   | 0030089669   | 0030089871  |
| 10 mL  |  orange        | 0030089464   | 0030089820   | 0030089677   |   |
| 25 mL  |  red           | 0030089472   | 0030089839   | 0030089685   |   |
| 50 mL  |  light gray    | 0030089480   | 0030089847   | 0030089693   |   |
| <b>Eppendorf ViscoTip®</b>   |   |  |  |  |   |
| 10 mL  |  double orange | 0030089502   |  |  |   |
| <b>Repeater E3</b> , single-channel, with charging cable and Combitips advanced® assortment pack (1 Combitip of each size), 1 µL – 50 mL                             |   |  |  |  | 4987000118  |
| <b>Repeater E3 bundle incl. charger stand</b> , single-channel, with charging cable and Combitips advanced® assortment pack (1 Combitip of each size), 1 µL – 50 mL  |   |  |  |  | 4987000134  |
| <b>Repeater E3x bundle incl. charger stand</b> , single-channel, with charging cable and Combitips advanced® assortment pack (1 Combitip of each size), 1 µL – 50 mL |   |  |  |  | 4987000410  |
| <b>Repeater M4 Starter Kit</b> , single-channel, Repeater M4, Combitip Rack, Combitip assortment pack, 1 µL – 10 mL  |   |  |  |  | 4982000322  |

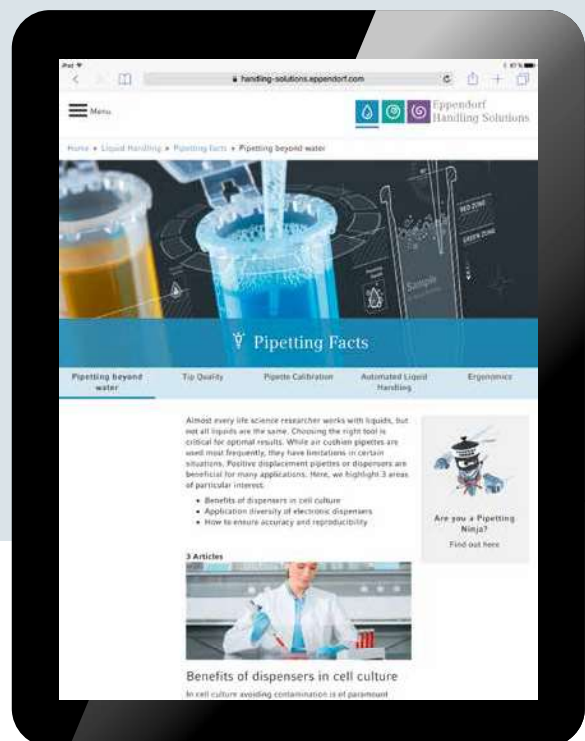
## Increase your knowledge and become a liquid handling professional!

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)



Your local distributor: [www.eppendorf.com/contact](http://www.eppendorf.com/contact)  
Eppendorf North America, Inc. · Phone: 800-645-3050  
[eppendorf@eppendorf.com](mailto:eppendorf@eppendorf.com) · [www.eppendorf.com](http://www.eppendorf.com)

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