

making a difference



**YOUR RESULTS -
OUR TIPS**

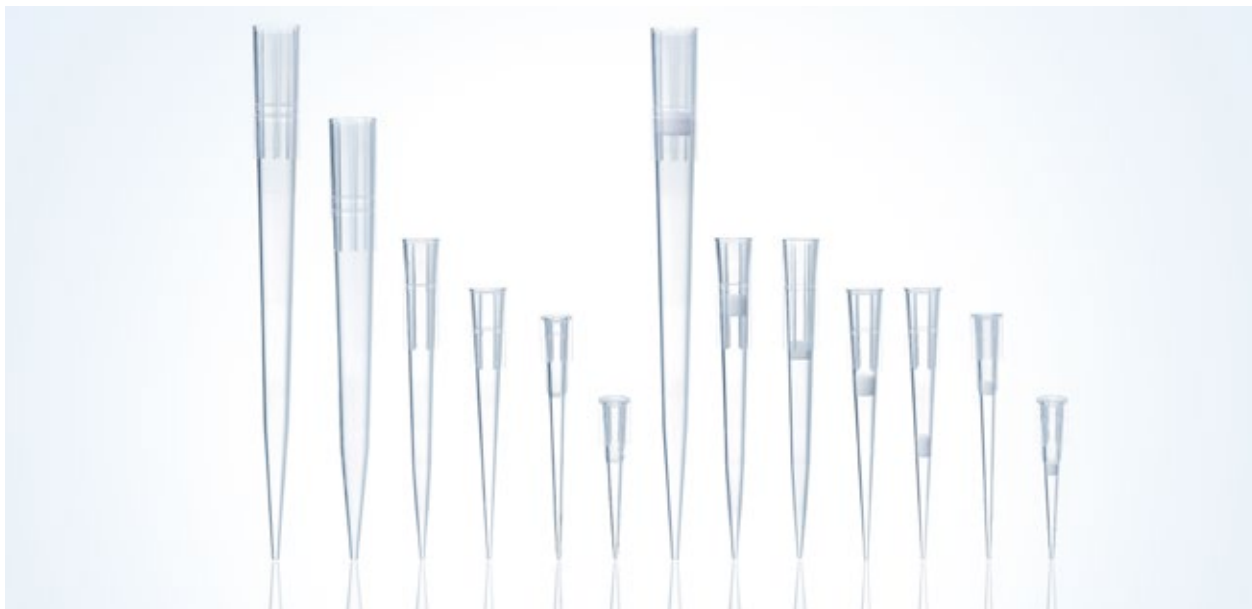
SAPPHIRE

Pipette Tips & Filter Tips


greiner
BIO-ONE

THE SAPPHIRE PORTFOLIO

OPTIMISED LIQUID HANDLING SOLUTIONS FOR ALL YOUR DAILY REQUIREMENTS



We understand that flexibility is critical in terms of modern liquid handling solutions. This is why the Sapphire tips are manufactured in eight different sizes in a **volume range from 10 µl to 1250 µl**, including an extended length 10 µl tip for the recovery of small sample volumes.

All our tips are made of medical grade polypropylene and are available as **standard, low-retention, filter or low-retention filter tips**.

Depending on the format, Sapphire pipette tips are **packed in racks, bulk or refill units**.

Sapphire tips and pipettes when used together provide a fully **optimised and harmonised** liquid handling solution.



Racked

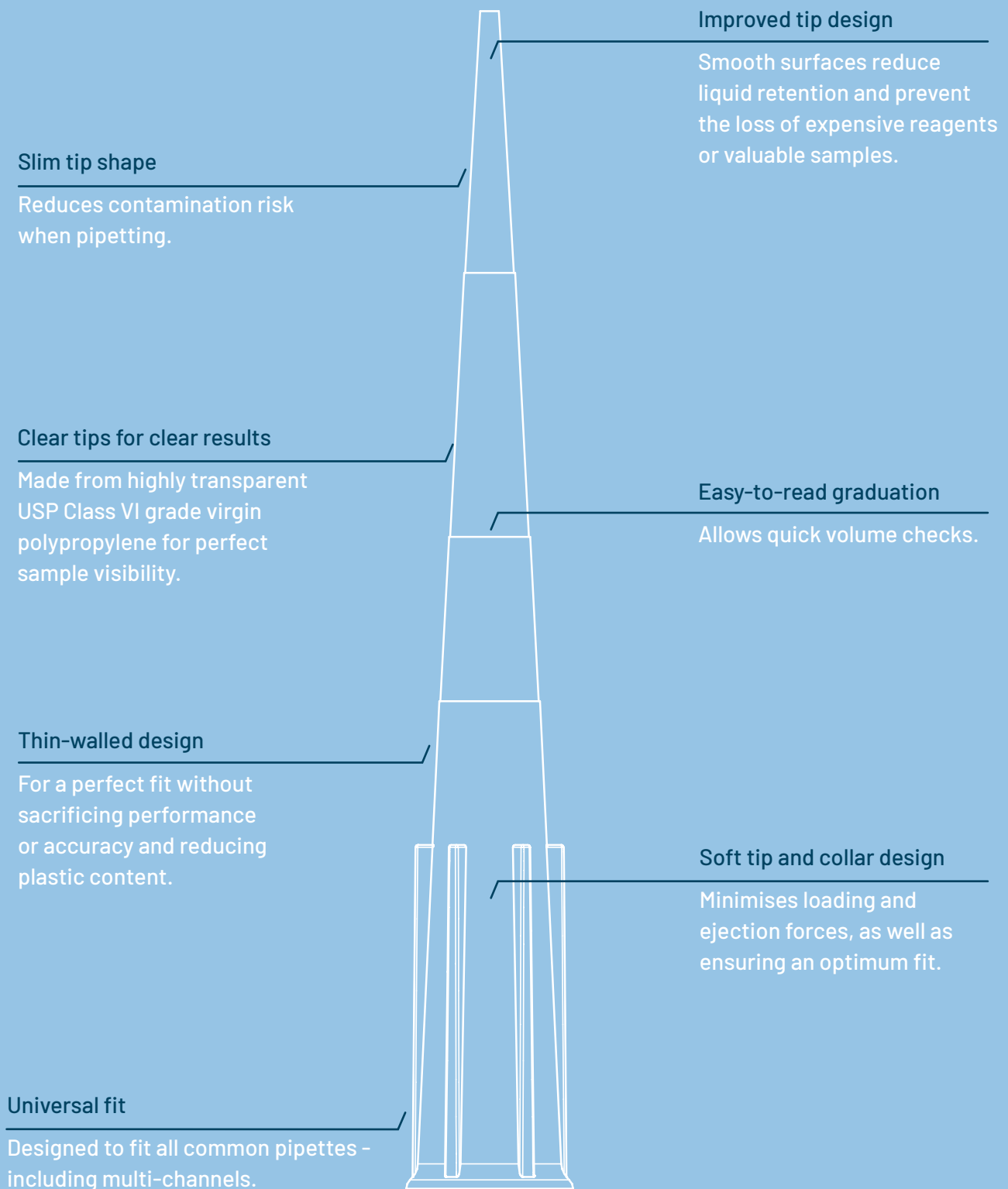


Bulk packed



Refill unit

SAPPHIRE TIPS FEATURES



WHY SAPPHIRE TIPS?

Greiner Bio-One has liquid handling expertise since many decades and has constantly focused on **progress and customer orientation** within this field. As a consequence, we have created a **new generation** of Sapphire pipette tips in a **comprehensive and clear portfolio**.

State-of-the-art production

Our tips are manufactured in our cutting-edge production site in Kremsmünster, Austria. From production to packaging, all steps are **fully automated and integrated in a controlled environment**, which reduces the contamination risk to a minimum.

Low-retention - Because every drop counts

The Sapphire low-retention surface provides minimised adherence of sample material to the inner tip surface. This is obtained by a special treatment, resulting in highest accuracy even with detergents or other viscous and complex samples.

Filter tips - Keep it safe!

Sapphire filter tips reliably limit the carry-over of biological material and aerosols without affecting the accuracy of the pipetted volume. The hydrophobic polyethylene filters are manufactured without additives for a self-sealing effect, allowing the entire sample to be recovered if it accidentally comes into contact with the filter.



"With our fully automated production & packaging, we limit the risk of contamination."

All Sapphire Tips are produced in only one quality - the best!

YOUR RESEARCH DESERVES THE BEST QUALITY

All Sapphire tips meet the same high, uniform quality standards regardless of type, surface or shape.

We certify that our products are manufactured and tested in accordance with international standards and meet the required specifications.

ISO 9001
Quality man. systems - Requirements

ISO 8655-6
Piston-operated volumetric apparatus

ISO 10993-5
Biomedical evaluation of medical devices

ISO 11137
Sterilisation of healthcare products

- / Free of detectable DNase, RNase, human DNA and PCR inhibitors
- / Non-pyrogenic and non-cytotoxic
- / Tested for leachables
- / Sterility level of SAL 10⁻⁶
- / Manufactured in the EU and tested in accordance with international standards
- / Fully automated packaging to avoid particle contamination
- / Full traceability

FULL TRACEABILITY

Sophisticated labelling on packaging and product for all Sapphire products

Colour-coded bulk packaging and rack insert with printed specification for user-friendly tip identification and perfect traceability



THREE FORMATS TO COVER ALL YOUR NEEDS

Sapphire is a sophisticated pipette tip system with three different packaging options. All variants are thought through down to the smallest detail and designed to meet your everyday needs and ease your daily routine.

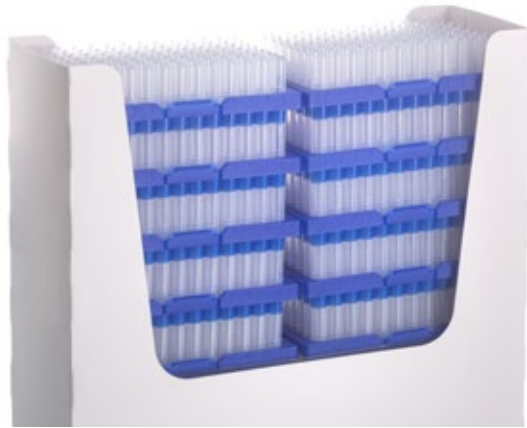
In addition, we offer complete **traceability** for all Sapphire products due to sophisticated product and packaging labels. Moreover, we have put emphasis on **sustainability** at every stage of the planning process.

RACK
with colour-coded
rack insert



PATENT-PENDING RACK

- / **Two rack sizes** cover the whole tip portfolio
- / Available **sterile / non-sterile**
- / Can be **autoclaved** and **reused** more than 50 times
- / **Highly transparent** and **stable** for optimal tip integrity and visibility
- / Stackable and automation-friendly (ANSI external dimensions)
- / **Color-coded** rack inserts for quick volume identification
- / Designed for both **single** and **multi-channel pipettes**
- / Individual packaging for reduced contamination



REFILL UNIT

with lateral
box opening

RESOURCE-FRIENDLY REFILL UNIT

- / Saves precious **time** and **storage space**
- / **Environment-friendly** due to reduction of packaging and rack material
- / Available **sterile / non-sterile**
- / Refill inserts can be **easily changed one-handed**
- / **Lateral box opening** for convenient removal of the refill inserts
- / **Reinforced** refill box base for increased stability
- / **Colour-coded** rack inserts for quick volume identification



BULK PACKAGING

with colour-coded
bag labelling

RESEALABLE BULK PACKAGING

- / **Economic** refilling of our matching Sapphire racks
- / **Easy to open**
- / **Easy to reseal**
- / Available **non-sterile**
- / Tips are **fully autoclavable**
- / **Robust** bag material
- / **Colour-coded** bag labelling for quick volume identification
- / Low risk of entanglement of tips

SAPPHIRE PIPETTES

PIPETTES AND TIPS IN PERFECT HARMONY

Sapphire pipettes are a variable volume range of air-displacement pipettes designed and built to deliver optimal **performance, ergonomics, and robustness** in day-to-day use. The lightweight design coupled with a **state-of-the-art mechanism** reduces pipetting forces and makes our pipettes both **comfortable and easy-to-use**. The contoured body shape allows for a relaxed grip whatever size your hand, and the **3-position tip ejector button** makes pipetting comfortable

for both left-handed and right-handed users.

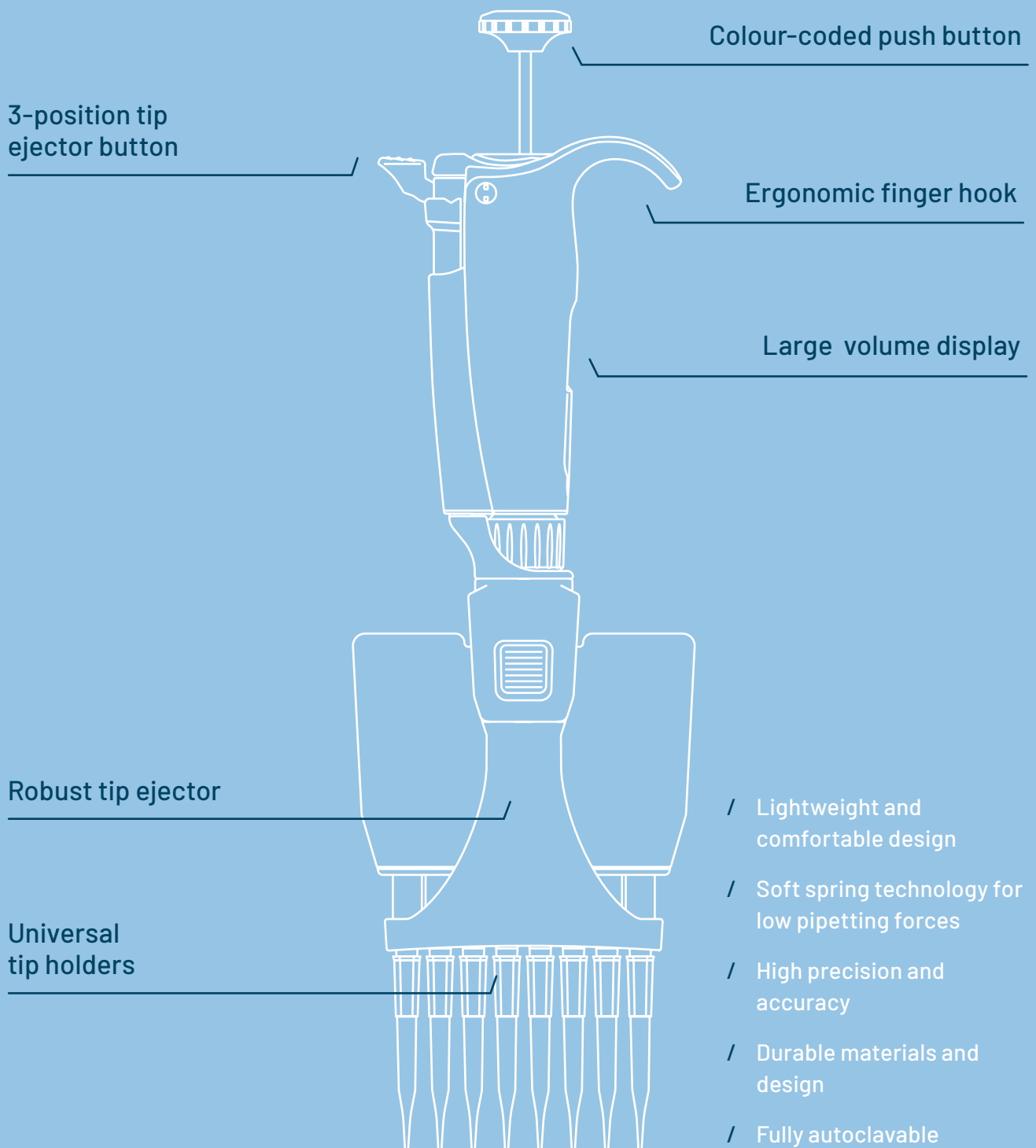
Sapphire pipettes provide an excellent performance within **ISO 8655** which is considered the basis for determining the accuracy and precision of air-displacement pipettes. In combination with Sapphire pipette tips they show one of the lowest error tolerances on the market.

KEY FACTS

- / Optimal performance
- / Outstanding accuracy & precision
- / Ergonomic design & minimal pipetting forces for a new level of comfort
- / Available as single-channel, 8-channel and 12-channel pipettes
- / 3 year warranty



SAPPHIRE PIPETTES FEATURES



PRODUCT OVERVIEW - SAPPHIRE PIPETTE TIPS

10 µl tips

Volume range: 0.2-10 µl; corresponding rack: 770310 (● red insert)



Tip version	Packaging option	Shelf box [pcs.]	Shipping carton [pcs.]	Order no.
Pipette tip	Rack	960*	5,760	771351
	Rack, sterile	960*	5,760	771352
	Refill	960	4,800*	771354
	Refill, sterile	960	4,800*	771355
	Bulk	1,000	10,000*	771350
Filter tip	Rack, sterile	960*	5,760	771353
Pipette tip, low-retention	Rack	960*	5,760	771361
	Rack, sterile	960*	5,760	771362
	Refill	960	4,800*	771364
	Refill, sterile	960	4,800*	771365
Filter tip, low-retention	Rack, sterile	960*	5,760	771363

10 µl extended tips

Volume range: 0.5-10 µl; corresponding rack: 770310 (● red insert)



Tip version	Packaging option	Shelf box [pcs.]	Shipping carton [pcs.]	Order no.
Pipette tip	Rack	960*	5,760	772351
	Rack, sterile	960*	5,760	772352
	Refill	960	4,800*	772354
	Refill, sterile	960	4,800*	772355
	Bulk	1,000	5,000*	772350
Filter tip	Rack, sterile	960*	5,760	772353
Pipette tip, low-retention	Rack	960*	5,760	772361
	Rack, sterile	960*	5,760	772362
	Refill	960	4,800*	772364
	Refill, sterile	960	4,800*	772365
Filter tip, low-retention	Rack, sterile	960*	5,760	772363

20 µl tips

Volume range: 2-20 µl; ● orange insert



Tip version	Packaging option	Shelf box [pcs.]	Shipping carton [pcs.]	Order no.
Filter tip	Rack, sterile	960*	5,760	773353
Filter tip, low-retention	Rack, sterile	960*	5,760	773363

*smallest sales unit

100 µl tips

Volume range: 2-100 µl; ● dark yellow insert



Tip version	Packaging option	Shelf box [pcs.]	Shipping carton [pcs.]	Order no.
Filter tip	Rack, sterile	960*	5,760	774353
Filter tip, low-retention	Rack, sterile	960*	5,760	774363

200 µl tips

Volume range: 5-200 µl; corresponding rack: 770320 (● yellow insert)



Tip version	Packaging option	Shelf box [pcs.]	Shipping carton [pcs.]	Order no.
Pipette tip	Rack	960*	5,760	775351
	Rack, sterile	960*	5,760	775352
	Refill	960	4,800*	775354
	Refill, sterile	960	4,800*	775355
	Bulk	1,000	15,000*	775350
Filter tip	Rack, sterile	960*	5,760	775353
Pipette tip, low-retention	Rack	960*	5,760	775361
	Rack, sterile	960*	5,760	775362
	Refill	960	4,800*	775364
	Refill, sterile	960	4,800*	775365
Filter tip, low-retention	Rack, sterile	960*	5,760	775363

300 µl tips

Volume range: 10-300 µl; corresponding rack: 770330 (● green insert)



Tip version	Packaging option	Shelf box [pcs.]	Shipping carton [pcs.]	Order no.
Pipette tip	Rack	960*	5,760	776351
	Rack, sterile	960*	5,760	776352
	Refill	960	4,800*	776354
	Refill, sterile	960	4,800*	776355
	Bulk	1,000	10,000*	776350
Filter tip	Rack, sterile	960*	5,760	776353
Pipette tip, low-retention	Rack	960*	5,760	776361
	Rack, sterile	960*	5,760	776362
	Refill	960	4,800*	776364
	Refill, sterile	960	4,800*	776365
Filter tip, low-retention	Rack, sterile	960*	5,760	776363

*smallest sales unit

PRODUCT OVERVIEW - SAPPHIRE PIPETTE TIPS

1000 µl tips

Volume range: 50-1000 µl; corresponding rack: 770340 (● blue insert)



Tip version	Packaging option	Shelf box [pcs.]	Shipping carton [pcs.]	Order no.
Pipette tip	Rack	960*	3,840	777351
	Rack, sterile	960*	3,840	777352
	Refill	960	4,800*	777354
	Refill, sterile	960	4,800*	777355
	Bulk	1,000	5,000*	777350
Pipette tip, low-retention	Rack	960*	3,840	777361
	Rack, sterile	960*	3,840	777362
	Refill	960	4,800*	777364
	Refill, sterile	960	4,800*	777365

1250 µl tips

Volume range: 50-1250 µl; corresponding rack: 770340 (● blue insert)



Tip version	Packaging option	Shelf box [pcs.]	Shipping carton [pcs.]	Order no.
Pipette tip	Rack	960*	3,840	778351
	Rack, sterile	960*	3,840	778352
	Refill	960	4,800*	778354
	Refill, sterile	960	4,800*	778355
	Bulk	1,000	5,000*	778350
Filter tip	Rack, sterile	960*	3,840	778353
Pipette tip, low-retention	Rack	960*	3,840	778361
	Rack, sterile	960*	3,840	778362
	Refill	960	4,800*	778364
	Refill, sterile	960	4,800*	778365
Filter tip, low-retention	Rack, sterile	960*	3,840	778363

Empty tip racks

Sapphire tip size [µl]	Rack insert colour	Shelf box [pcs.]	Shipping carton [pcs.]	Order no.
10	● red	10*	60	770310
200	● yellow	10*	60	770320
300	● green	10*	60	770330
1000 - 1250	● blue	10*	40	770340

*smallest sales unit

PRODUCT OVERVIEW - SAPPHIRE PIPETTES

Single-channel pipettes

Volume range [μ l]	Colour code	Order no.
0.2-2	● orange	89000002
1-10	● red	89000010
2-20	● light yellow	89000020
10-100	● light orange	89000100
20-200	● yellow	89000200
100-1000	● blue	89001000
500-5000	● violet	89000500
1000-10000	● light blue	89010000

8-channel pipettes

Volume range [μ l]	Colour code	Order no.
0.5-10	● red	89000810
2-20	● light yellow	89000820
20-200	● yellow	89008200
20-300	● green	89008300

12-channel pipettes

Volume range [μ l]	Colour code	Order no.
0.5-10	● red	89001210
2-20	● light yellow	89001220
20-200	● yellow	89012200
20-300	● green	89012300

SUSTAINABILITY



Sustainability-oriented product design
reducing the consumption of raw materials



Convenient bulk and refill options that significantly
save packaging and storage space



Sapphire racks are **autoclavable** at least **50 times** without
any negative impact on product integrity



Sapphire rack inserts are made of **recycled raw material**



Sapphire **cardboard packaging** made of **recycled material**



Optimised injection moulding plant **reduces our carbon
footprint by 61 tons of CO₂ annually**¹

¹ Kommunkredit Public Consulting

>> Did you know that the lightweight but robust design of our tips can save up to 253 kg of polypropylene per year in an average research institute with 10 research groups? <<

RESPONSIBLE LIQUID HANDLING

For more than 150 years, we have been an organisation with bold ambitions: to inspire others, create added value for our customers and have a positive impact on our environment and our society. Our sustainability strategy, **Blue Plan**, maps out how we can make this vision a reality.

Blue Plan encompasses all parts of our company around the world. It focuses on three major priority areas, which we have identified as key issues that will shape Greiner's future: climate change, creating a circular business, and people.

With our Sapphire product range, we have created a **more sustainable brand** which uses less raw materials and incorporates environmentally friendly packaging.

With these features and our wider sustainability goals, we aim to help your organisation meet its own environmental objectives.

UNCOMPROMISING QUALITY BUT WITH LESS PLASTIC

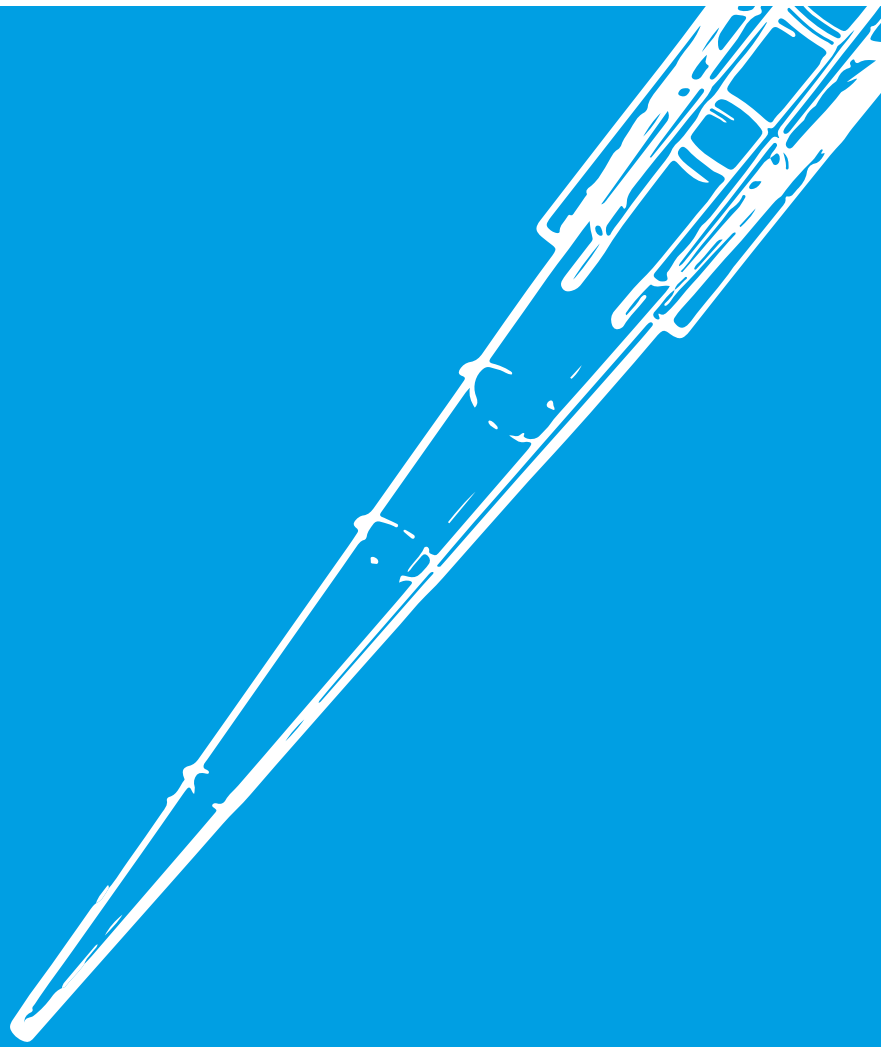
- / Less weight to make your daily pipetting routine easier and more comfortable
- / Significantly less raw material (PP) than many competitors
- / Supports sustainability initiatives

DISCOVER MORE ABOUT BLUE PLAN

<https://www.greiner.com/en/greiner-ag/sustainability/>



making a difference



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