

14 Accessories	13 Reaction Tubes/ Analyser Cups	12 Lids/Sealers/ CapMats	11 Cryo- Technics	10 Biochips/ Microfluidics	9 Separation	8 Protein Crystallisation	7 Molecular Biology	6 Liquid Handling	<b>5 Tubes/Multi- Purpose Beakers</b>	4 Microbiology/ Bacteriology	3 Immunology/ HLA	2 HTS- Microplates	1 Cell/ Tissue Culture
----------------	-------------------------------------	-----------------------------	----------------------	-------------------------------	--------------	------------------------------	------------------------	----------------------	---	---------------------------------	----------------------	-----------------------	---------------------------



# 5 Tubes / Multi-Purpose Beakers

➤ <b>General Introduction</b>	<b>5   2</b>
➤ <b>Tubes</b>	<b>5   3</b>
Tubes with Round Bottom	
– Polystyrene Tubes	5   3
– Polypropylene Tubes	5   4
– Polyethylene Tubes	5   5
Tubes with Conical Bottom	
– Polystyrene Tubes	5   5
Tubes with Screw Cap	
– Polystyrene Tubes	5   6
– CELLSTAR® Polypropylene Tubes	5   7
Tubes with Two-position Vent Stopper	
– Polystyrene Tubes	5   8
– Polypropylene Tubes	5   8
➤ <b>Multipurpose Containers / Beakers</b>	<b>5   9</b>
Polystyrene Containers for Plant Tissue Culture	5   9
Drosophila Containers	5   9
Polystyrene Multipurpose Containers	5   10
Polypropylene Multipurpose Beakers	5   12
➤ <b>Closures</b>	<b>5   13</b>





- 1 Cell/ Tissue Culture
- 2 HTS- Microplates
- 3 Immunology/ HLA
- 4 Microbiology/ Bacteriology
- 5 Tubes/Multi- Purpose Beakers**
- 6 Liquid Handling
- 7 Molecular Biology
- 8 Protein Crystallisation
- 9 Separation
- 10 Biochips/ Microfluidics
- 11 Cryo-Technics
- 12 Lids/Sealers/ CapMats
- 13 Reaction Tubes/ Analyser Cups
- 14 Accessories

# Tubes / Multipurpose Beakers

The range of Greiner Bio-One tubes and multipurpose containers/beakers is very versatile and meets a wide variety of different demands.

## Tubes

Tubes are made of the following materials:

**Polystyrene:** Is ideally suited for optical measurements as a result of its high clarity.

**Polypropylene:** Displays high thermal, mechanical and chemical resistance. It is therefore recommended for the storage of chemical and biological samples.

**Polyethylene:** Is characterised by high thermal and chemical resistance.

The range of tubes available:

- ☞ with round or conical bottom
- ☞ with or without skirt
- ☞ in sterile or non-sterile version

In addition, it is possible to order appropriate closures in the form of grip stoppers and screw caps. The product range is completed by tubes with a two-position vent stopper. This special stopper enables ventilation or an airtight closure of the tube, depending on the position of the stopper.

Please refer to the Technical Appendix for information on the max. relative centrifugal force (RCF) and chemical and thermal resistance of our tubes.

## Multipurpose Containers / Beakers

Multipurpose containers are supplied in different sizes and the following materials:

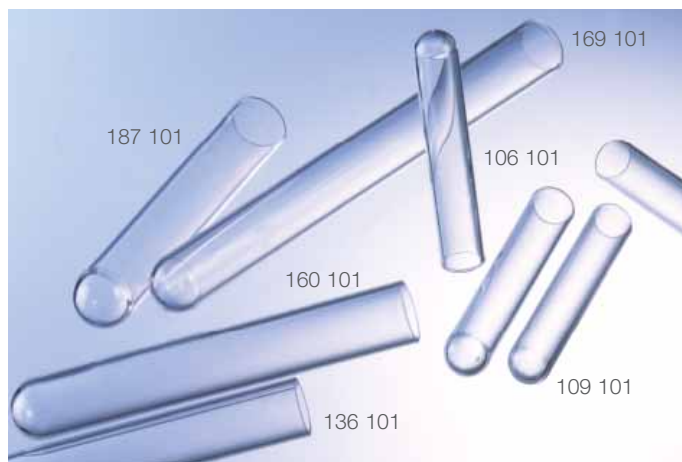
- ☞ Polystyrene for high clarity
- ☞ Polypropylene for high thermal, mechanical and chemical resistance

Depending on the application and requirements, it is possible to choose between different closures (plastic, metal) and labels (without, plain, printed).

The product range is rounded off by containers for plant tissue culture and *Drosophila melanogaster* breeding.

# Tubes







## Tubes with Round Bottom





### Polystyrene Tubes Round Bottom

- ▶ Cell Culture Tubes p. 1 | 21
- ▶ Further Closures p. 5 | 13
- ▶ Overview: See Technical Appendix for max. relative centrifugal force (RCF)

- Appropriate grip stoppers for each tube are listed in the table with their Cat.-No.
- Available in different sizes
- High clarity
- Available in different packaging units

						
Cat.-No.	<b>103 101</b>	<b>106 101</b>	<b>109 101</b>	<b>112 101</b>	<b>115 101</b>	<b>136 101</b>
ø [mm] x height [mm]	10.5 x 40	11 x 63	11 x 70	12 x 55	12 x 75	14 x 100
Volume [ml]	2	3.5	4	4	5	10
Sterile	-	-	-	-	-	-
Grip stopper, Cat.-No.	<b>301 321</b>	<b>302 321</b>	<b>302 321</b>	<b>303 321</b>	<b>303 321</b>	<b>307 321</b>
Quantity per bag/case	500/3000	250/3000	240/2880	240/3600	250/2000	1400

			
Cat.-No.	<b>160 101</b>	<b>187 101</b>	<b>169 101</b>
ø [mm] x height [mm]	16 x 100	17 x 100	16 x 152
Volume [ml]	12	14	20
Sterile	-	-	-
Grip stopper, Cat.-No.	<b>310 321</b>	<b>318 321</b>	<b>310 321</b>
Quantity per bag/case	1600	1500	1500

1 Cell/  
Tissue Culture

2 HTS-  
Microplates

3 Immunology/  
HLA

4 Microbiology/  
Bacteriology

5 Tubes/Multi-  
Purpose Beakers

6 Liquid  
Handling

7 Molecular  
Biology

8 Protein  
Crystallisation

9 Separation

10 Biochips/  
Microfluidics

11 Cryo-  
Technics

12 Lids/Sealers/  
CapMats

13 Reaction Tubes/  
Analyser Cups

14 Accessories

1 Cell/  
Tissue Culture

2 HTS-  
Microplates

3 Immunology/  
HLA

4 Microbiology/  
Bacteriology

5 Tubes/Multi-  
Purpose Beakers

6 Liquid  
Handling

7 Molecular  
Biology

8 Protein  
Crystallisation

9 Separation

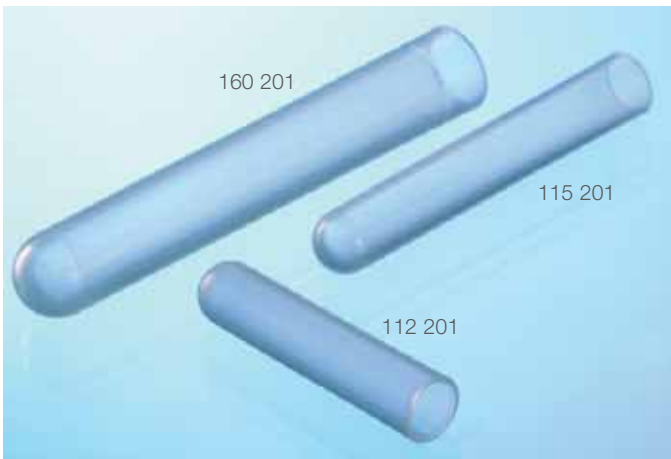
10 Biochips/  
Microfluidics

11 Cryo-  
Technics

12 Lids/Sealers/  
CapMats

13 Reaction Tubes/  
Analyser Cups

14 Accessories



### Polypropylene Tubes Round Bottom

Further Closures p. 5 | 13

- Polypropylene tubes have particularly good thermal, chemical and mechanical stability
- Material is ideally suited for the storage of samples

- Available in different sizes
- Appropriate grip stoppers for each tube are listed in the table with their Cat.-No.



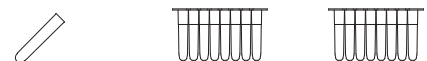
Cat.-No.	112 201	115 201	160 201	187 201
ø [mm] x height [mm]	12 x 55	12 x 75	16 x 100	17 x 100
Volume [ml]	4	5	12	14
Sterile	-	-	-	-
Grip stopper, Cat.-No.	303 321	303 321	310 321	318 321
Quantity per bag/case	240/3600	250/2000	1600	1500



### Polypropylene Tubes Round Bottom For Storage Box Cat.-No. 975 502

Storage Box p. 2 | 25

Strip Cap Cat.-No. 365 270 and 365 261 (sterile)





Cat.-No.	102 201	102 261	102 270
ø [mm] x height [mm]	8.5 x 44	8.5 x 44	8.5 x 44
Volume per tube [ml]	1.3	1.3	1.3
Sterile	-	+	-
Tube chain with attached strip cap	-	+	+
Quantity per bag/case	1000	1000	1000



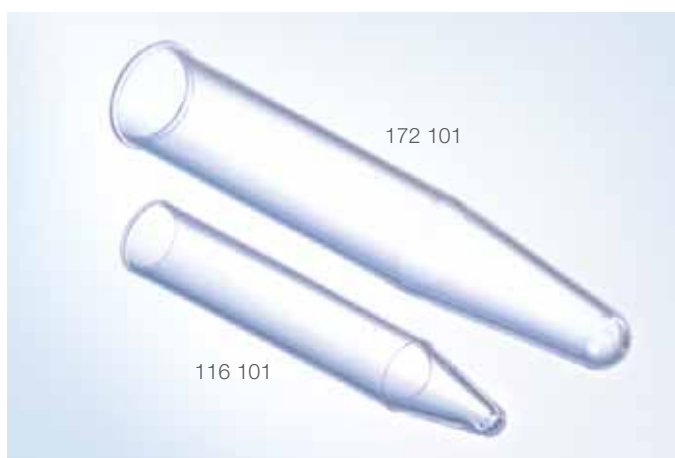
## Polyethylene Tubes Round Bottom

Further Closures p. 5 | 13

- Available in two different sizes
- Polyethylene tubes are characterised by good thermal and chemical resistance

		
Cat.-No.	<b>112 301</b>	<b>115 301</b>
ø [mm] x height [mm]	12 x 55	12 x 75
Volume [ml]	4	5
Sterile	-	-
Grip stopper, Cat.-No.	<b>303 321</b>	<b>303 321</b>
Quantity per bag/case	240/3600	250/2000

## Tubes with Conical Bottom





## Polystyrene Tubes Conical Bottom

Further Closures p. 5 | 13

Overview: See Technical Appendix for max. relative centrifugal force (RCF)

- The conical bottom makes them ideal for small volumes and for valuable sample material, since the sample collects at the bottom of the tube

- High clarity
- Available in different sizes and with the appropriate grip stopper

		
Cat.-No.	<b>116 101</b>	<b>172 101</b>
ø [mm] x height [mm]	12 x 75	16.5 x 103
Volume [ml]	4.5	13
Sterile	-	-
Grip stopper, Cat.-No.	<b>303 321</b>	<b>317 321</b>
Quantity per bag/case	60/3600	1500

Tubes with Screw Cap



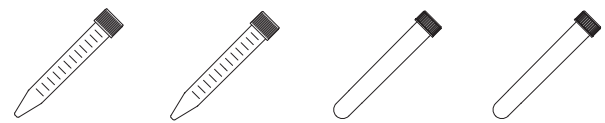
**Polystyrene Tubes**  
Screw Cap, Conical / Round Bottom

- ↳ Further Closures p. 5 | 13
- ↳ Overview: See Technical Appendix for max. relative centrifugal force (RCF)
- ↳ Cell Culture Tubes p. 1 | 21
- ↳ Tube No. 163 177 also available as polypropylene version with white screw cap (Cat.-No. 163 270)



Cat.-No.	164 180	164 161	163 177
Bottom design	conical	conical	round
ø [mm] x height [mm]	16.8 x 100	16.8 x 100	17 x 100
Volume [ml]	12	12	12
Sterile	-	+	-
Screw cap	-	-	black
Bayonet cap <sup>*)</sup>	white	blue	-
Graduation	-	-	-
Writing area	-	-	-
Support skirt	+	+	-
Quantity per bag/case	1300	25/1000	900

<sup>\*)</sup> open by a 1/3 turn



Cat.-No.	188 161	188 171	186 161	186 171
Bottom design	conical	conical	round	round
ø [mm] x height [mm]	17 x 120	17 x 120	17 x 120	17 x 120
Volume [ml]	15	15	15	15
Sterile	+	+	+	+
Screw cap	blue	blue	blue	blue
Graduation	+	+	-	-
Writing area	+	+	-	-
Support skirt	-	-	-	-
Quantity per bag/case	50 <sup>*)</sup> /500	100/1000	50 <sup>*)</sup> /500	100/1000

<sup>\*)</sup> box

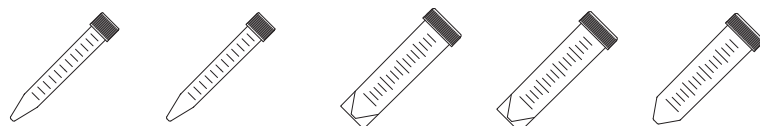
<sup>\*)</sup> box

1 Cell/ Tissue Culture  
2 HTS- Microplates  
3 Immunology/ HLA  
4 Microbiology/ Bacteriology  
5 Tubes/Multi- Purpose Beakers  
6 Liquid Handling  
7 Molecular Biology  
8 Protein Crystallisation  
9 Separation  
10 Biochips/ Microfluidics  
11 Cryo-Techniques  
12 Lids/Sealers/ CapMats  
13 Reaction Tubes/ Analyser Cups  
14 Accessories



Free of detectable DNase, RNase, human DNA  
non-pyrogenic

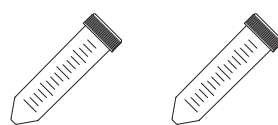
non-cytotoxic



Cat.-No.	188 261	188 271	210 261	210 270	227 261
Bottom design	conical	conical	conical	conical	conical
ø [mm] x height [mm]	17 x 120	17 x 120	30 x 115	30 x 115	30 x 115
Volume [ml]	15	15	50	50	50
Sterile	+	+	+	+	+
Colour	natural	natural	natural	natural	natural
Screw cap	blue	blue	blue	blue	blue
Graduation	blue	blue	blue	blue	blue
Writing area	white	white	white	white	white
Support skirt	-	-	+	+	-
Quantity per bag/case	50*/500	100/1000	25/450	25*/300	20/500

\*) box

\*) box



Light Protection Tubes



Cat.-No.	227 270	227 285	188 283	188 280	227 283	227 280
Bottom design	conical	conical	conical	conical	conical	conical
ø [mm] x height [mm]	30 x 115	30 x 115	17 x 120	17 x 120	30 x 115	30 x 115
Volume [ml]	50	50	15	15	50	50
Sterile	+	+	+	+	+	+
Colour	natural	natural	brown	brown	brown	brown
Screw cap	blue	white	blue	blue	blue	blue
Graduation	blue	blue	blue	blue	blue	blue
Writing area	white	white	white	white	white	white
Support skirt	-	-	-	-	-	-
Quantity per bag/case	25*/300	20/500	50*/500	100/1000	25*/300	20/500

\*) box

\*) box

\*) box

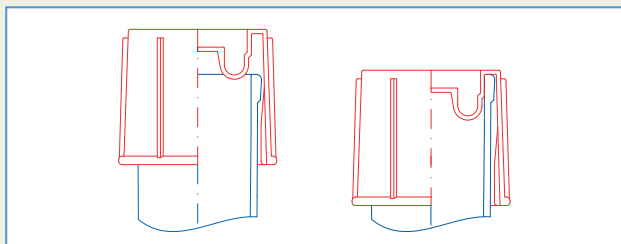


## Tubes with Two-position Vent Stopper



### Polystyrene Tubes Polypropylene Tubes Two-position Vent Stopper

- Available in different sizes and packaging units
- Also available with graduation

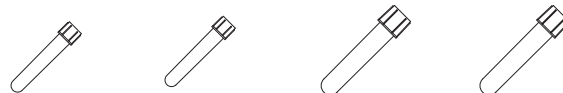


Two-position vent stopper fulfils two functions (Fig. 1):

1. When attached lightly, this enables a uniform ventilation of the tube contents
2. When attached firmly by pressing in the stopper further, an airtight closure of the tube is achieved

**Figure 1:**  
Cross-section of a two-position vent stopper

Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic



Cat.-No.	120 161	120 180	191 161	191 180
Bottom design	round	round	round	round
Material	polystyrene	polystyrene	polystyrene	polystyrene
ø [mm] x height [mm]	12.4 x 75	12.4 x 75	18 x 95	18 x 95
Volume [ml]	4.5	4.5	14	14
Sterile	+	+	+	+
Two-position vent stopper	+	+	+	+
Graduation	-	-	-	-
Writing area	-	-	-	-
Quantity per bag/case	1/1000	25/2000	1/750	25/1000



Cat.-No.	115 261	115 262	187 261	187 262
Bottom design	round	round	round	round
Material	polypropylene	polypropylene	polypropylene	polypropylene
ø [mm] x height [mm]	12 x 75	12 x 75	18 x 95	18 x 95
Volume [ml]	5	5	14	14
Sterile	+	+	+	+
Two-position vent stopper	+	+	+	+
Graduation	+	+	+	+
Writing area	-	-	+	+
Quantity per bag/case	1/1000	25/2000	1/800	25/1000

1 Cell/  
Tissue Culture  
2 HTS-  
Microplates  
3 Immunology/  
HLA  
4 Microbiology/  
Bacteriology  
5 Tubes/Multi-  
Purpose Beakers  
6 Liquid  
Handling  
7 Molecular  
Biology  
8 Protein  
Crystallisation  
9 Separation  
10 Biochips/  
Microfluidics  
11 Cryo-  
Technics  
12 Lids/Sealers/  
CapMats  
13 Reaction Tubes/  
Analyser Cups  
14 Accessories

# Multipurpose Containers / Beakers

## Polystyrene Containers for Plant Tissue Culture



### Polystyrene Containers for Plant Tissue Culture

These containers are specially suited for plant tissue culture. The use of a very clear material ensures maximum light transmission and thus rapid and successful growth.

These culture containers are not only suitable for the proliferation of plant tissue cultures but can also be used as transport containers and are available with or without lids.

Cat.-No.	960 177	960 161	967 177	967 169	968 177	968 162
Description	container, bottom part	container	container, bottom part	container	container, bottom part	container
ø [mm] x height [mm]	53 x 100	53 x 100	68 x 66	68 x 66	68 x 100	68 x 100
Volume [ml]	175	175	190	190	330	330
Sterile	-	+	-	+	-	+
Closure, Cat.-No.	960 178	-	967 178	-	967 178	-
Quantity per bag/case	315	4/300	320	1/256	192	1/168

## Drosophila Containers



### Drosophila Containers

- Ideally suited for the cultivation of *Drosophila melanogaster*
- Choice of different sizes
- Bottom part of container made of polystyrene
- Can be supplied with a separately orderable ceaprene stopper. This stopper is gas-permeable and made of water-repellent material

Cat.-No.	199 101	205 101	217 101	960 177
ø [mm] x height [mm]	22 x 63	27 x 64	36 x 82	53 x 100
Volume [ml]	16	28	68	175
Ceaprene stopper, Cat.-No.	323 070	354 070	330 070	332 070
Quantity per bag/case	1500	1500	605	315

## Polystyrene Multipurpose Containers



### Polystyrene Multipurpose Containers

Further Containers p. 4 | 6

- High clarity
- Available in different sizes
- Can be used universally for academic and non-human medical purposes
- With or without plain or printed label

- All containers are manufactured aseptically in an ISO class 4 clean room environment – irradiated options are also available
- Plastic or metal cap

Cat.-No.	203 170
ø [mm] x height [mm]	24.5 x 40
Total volume [ml]	15
Working volume [ml]	10
Label	-
Sterile	-
Snap lid	+
Quantity per bag/case	50/500*)

\*) folding carton

Cat.-No.	201 150	201 170	201 152	201 172
ø [mm] x height [mm]	24 x 90	24 x 90	24 x 90	24 x 90
Total volume [ml]	30	30	30	30
Working volume [ml]	23	23	23	23
Label	-	-	plain	plain
Sterile	as	st	as	st
Screw cap, white	plastics	plastics	plastics	plastics
Bottom design	conical	conical	conical	conical
Support skirt	+	+	+	+
Quantity per bag/case	400	400	400	400

as = aseptically produced; st = sterile/irradiated

1 Cell/ Tissue Culture  
2 HTS- Microplates  
3 Immunology/ HLA  
4 Microbiology/ Bacteriology  
5 Tubes/Multi- Purpose Beakers  
6 Liquid Handling  
7 Molecular Biology  
8 Protein Crystallisation  
9 Separation  
10 Biochips/ Microfluidics  
11 Cryo- Technics  
12 Lids/Sealers/ CapMats  
13 Reaction Tubes/ Analyser Cups  
14 Accessories

Cat.-No.	219 170	219 175	219 190	224 170
ø [mm] x height [mm]	40 x 60	40 x 60	40 x 60	45 x 77
Total volume [ml]	60	60	60	100
Working volume [ml]	50	50	50	80
Label	-	plain	printed	-
Sterile	as	as	as	as
Screw cap	plastics (white)	plastics (white)	metal	metal
Quantity per bag/case	30/300	30/300	30/300	20/160

Cat.-No.	225 170	225 180	229 170	229 180
ø [mm] x height [mm]	49 x 107	49 x 107	58 x 121	58 x 121
Total volume [ml]	175	175	290	290
Working volume [ml]	155	155	260	260
Label	-	plain	-	plain
Sterile	as	as	as	as
Screw cap	metal	metal	metal	metal
Quantity per bag/case	20/120	20/120	12/48	12/48

as = aseptically produced; st = sterile/irradiated

1 Cell/  
Tissue Culture

2 HTS-  
Microplates

3 Immunology/  
HLA

4 Microbiology/  
Bacteriology

5 Tubes/Multi-  
Purpose Beakers

6 Liquid  
Handling

7 Molecular  
Biology

8 Protein  
Crystallisation

9 Separation

10 Biochips/  
Microfluidics

11 Cryo-  
Technics

12 Lids/Sealers/  
CapMats

13 Reaction Tubes/  
Analyser Cups

14 Accessories

## Polypropylene Multipurpose Beakers



## Polypropylene Multipurpose Beakers

➤ Further Containers p. 4 | 6

➤ Further Closures p. 5 | 13

- Can be used universally for academic and non-human medical purposes.
- Optimal mechanical, thermal and chemical stability
- Further information about Cat.-No. 724 170 → p. 5 | 13

- Multipurpose beakers can be supplied with or without screw cap
- The integrity seal screw cap ensures sterility and intactness of the product. The beaker is unbreakable and resistant against chemical influences
- Cat.-No., lot number and expiry date are printed on the base of the beaker to provide additional information and improve traceability

Cat.-No.	724 401	724 402	724 461
Description	beaker, bottom part	multipurpose beaker	multipurpose beaker
ø [mm] x height [mm]	61 x 71	61 x 71	61 x 71
Screw cap	Cat.-No. 724 170	natural	natural
Volume [ml]	100	100	100
Sterile	-	-	+
Graduation	+	+	+
Quantity per bag/case	720	300	300

## Closures



## Closures

- Two different types of closures:
  - Grip stopper
  - Screw cap
- Closures are made of high-grade polyethylene
- Screw caps available in different colours

Cat.-No.	301 321	302 321	303 321	307 321
Description	grip stopper	grip stopper	grip stopper	grip stopper
Material	PE	PE	PE	PE
Colour	natural	natural	natural	natural
Suitable for tube- $\varnothing$ [mm]	10.5	11	12	14
Suitable for tube Cat.-No.	<b>103 XXX</b>	<b>106 XXX,</b> <b>109 XXX</b>	<b>112 XXX,</b> <b>115 XXX</b>	<b>130 XXX,</b> <b>136 XXX</b>
Quantity per bag/case	1000/30000	500/25000	500/20000	100/10000

Cat.-No.	310 321	310 379	317 321	318 321
Description	grip stopper	grip stopper	grip stopper	grip stopper
Material	PE	PE	PE	PE
Colour	natural	white	natural	natural
Suitable for tube- $\varnothing$ [mm]	16	16	16.5	17
Suitable for tube Cat.-No.	<b>160 XXX,</b> <b>169 XXX</b>	<b>160 XXX</b>	<b>175 XXX</b>	<b>184 XXX,</b> <b>187 XXX</b>
Quantity per bag/case	100/8000	11000	10000	250/8000

Cat.-No.	366 380	366 383	366 384	366 385	366 386	724 170
Description	screw cap	screw cap	screw cap	screw cap	screw cap	screw cap
Gasket	+	+	+	+	+	-
Colour	natural	red	blue	green	yellow	natural
Suitable for tube- $\varnothing$ [mm]	12	12	12	12	12	61
Suitable for tube Cat.-No.	<b>716 XXX,</b> <b>717 XXX,</b> <b>722 XXX</b>	<b>716 XXX,</b> <b>717 XXX,</b> <b>722 XXX</b>	<b>716 XXX,</b> <b>717 XXX,</b> <b>722 XXX</b>	<b>716 XXX,</b> <b>717 XXX,</b> <b>722 XXX</b>	<b>716 XXX,</b> <b>717 XXX,</b> <b>722 XXX</b>	<b>724 4XX</b>
Quantity per bag/case	500/5000	500/5000	500/5000	500/5000	500/5000	720