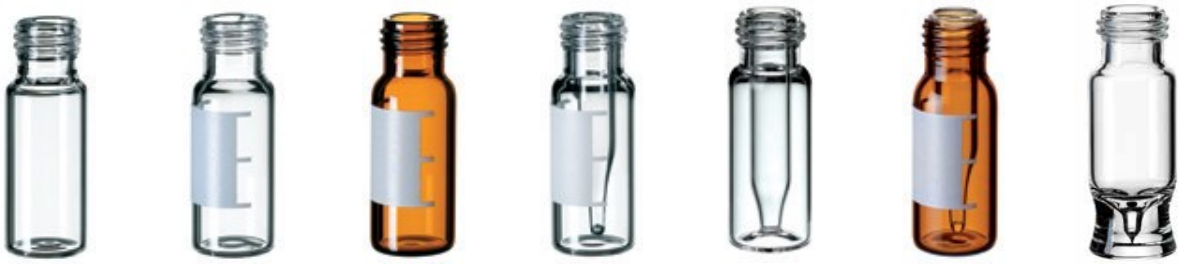
3. Short Thread ND9

The vials can be used on all common autosamplers due to their technical geometry, preferentially they are found on Agilent, HTA, Shimadzu, Thermo Scientific, Varian, Waters®, etc. (Please have a look at the autosampler compatibility chart on pages 62-73 to see on which models they can be used)

The Universal Autosampler Vial
Universally compatible on almost all autosamplers, thereby rationalization of other 1.5ml vials, as for instance 11mm Crimp Neck Vials, Screw Neck Vials 8-425 and 10-425, is possible.

3.1 Short Thread Vials ND9, wide opening and Micro-Vials with Short Thread ND9



KGB090196	KGB090197	KGB090188	KGB090363 KGB090364	KGB090682	KGB090683	KGB091122
1.5ml Short Thread Vial, 32 x 11.6mm, clear glass, 1st hydrol. class, wide opening **SILANIZED KG 09 0196s**	1,5ml Short Thread Vial, 32 x 11.6mm, clear glass, 1st hydrol. class, wide opening, label + filling lines **SILANIZED KG 09 0197s**	1,5ml Short Thread Vial, 32 x 11.6mm, amber glass, 1st hydrol. class, wide opening, label + filling lines **SILANIZED KG 09 0188s**	Short Thread Vial with integrated 0.2ml Micro-Insert, 32 x 11.6mm, clear glass, 1st hydrol. class, label + filling lines, **"Top Bonded"**	Short Thread Vial with integrated 0,.3ml Micro-Insert, 32 x 11.6mm, clear glass, 1st hydrol. clas **"Base Bonded"**	Short Thread Vial with integrated 0,.3ml Micro-Insert, 32 x 11.6mm, amber glass, 1st hydrol. clas **"Base Bonded"**	0,9ml Total Mikroliter Short Thread Vial 32 x 11,6mm, clear glass, 1. hydrol. class
R. vol. < 120µl	R. vol. < 120µl	R. vol. < 120µl	R. vol. < 1 µl	R. vol. < 1 µl	R. vol. < 3 µl	R. vol. < 1 µl
100 pcs.per PP-Box						

Vials ND9 (Forts.)

3.2 Micro-Inserts for Short Thread Vials with 6mm opening

KGB090863 KGB090864	KGB091201 KGB091321	ME060218	ME060361	ME060362	ME060232	ME061174
1,1ml Microliter Short Thread Vial 32 x 11.6mm, clear glass, 1st hydrol. class (Amber Glass)	1.1ml Microliter Short Thread Vial , 32 x 11.6mm, clear glass, 1st hydrol. clas (Amber Glass) **SILANIZED KGB091201s**	0.1ml Micro-Insert, 31 x 6mm, clear glass, 1st hydrol. class, 15mm top **SILANIZED ME060218s**	0,1ml Micro-Insert, 31 x 6mm, clear glass, 1st hydrol. class, 12mm top	0,2ml Micro-Insert, 31 x 6mm, clear glass, 1st hydrol. class, flat bottom	0,1ml Micro-Insert, 29 x 5.7mm, clear glass, 1st hydrol. class, with assembled plastic spring **SILANIZED ME060232s**	0.1ml PE Micro-Insert, 29 x 6mm, clear, with plastic spring
R. vol. < 15 µl	R. vol. < 15 µl	R. vol. < 4 µl	R. vol. < 4 µl	R. vol. < 8 µl	R. vol. < 4 µl	R. vol. < 4 µl
100 pcs.per PP-Box		100 pcs.per PP-Box				

3.3 Plastic Micro-Vials ND9



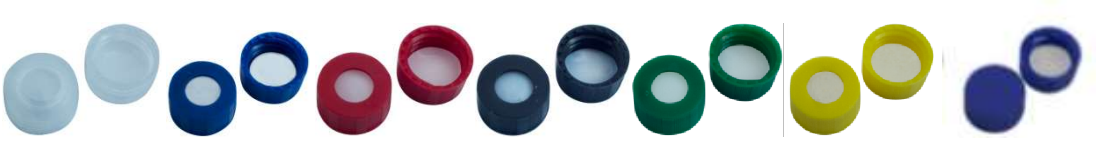

KGB090446	KGB090447	KGB090468	KGB090469
1.5ml PP Short Thread Vial, transparent, filling lines, 32 x 11.6mm, slightly concave shaped bottom	1,5m PP Short Thread Vial, amber, filling lines, 32 x 11.6mm, slightly concave shaped botto	0,7ml PP Short Thread Micro-Vial, transparent, 32 x 11.6mm	0,3ml PP Short Thread Micro-Vial, transparent, 32 x 11.6mm
R. vol. < 110µl	R. vol. < 110µl	R. vol. < 80µl	R. vol. < 4 µl
100 pcs.per PP-Box			

3.4 PP Short Thread Seals ND9

- Screw cap with the design of a crimp cap; therefore suitable for robotic handling.
- Already assembled seal with slit liner available, in order to avoid vacuum within the vial in case of multiple injections.
- Short thread seals also available as closed top version for storage purposes

3.4.1 PTFE virginal Seals

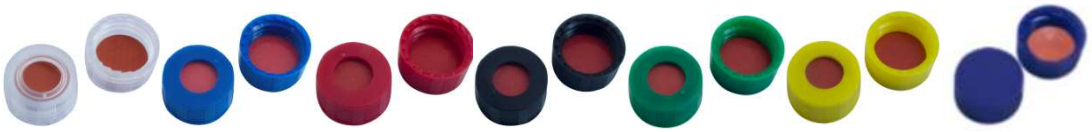
- Very inert and temperature resistant therefore also as coating on most other septa
- No elastomer therefore limited sealing and reclosing characteristics
- Only recommended for non-critical HPLC applications
- Mostly used by Merck/Hitachi and Waters



Art. No.	SVB090774	SVB090507	SVB090781	SVB090782	SVB090783	SVB090784	SVB090785
Cap	PP SC, transparent, 6mm hole	PP SC, blue, 6mm hole	PP SC, red, 6mm hole	PP SC, black, 6mm hole	PP SC, green, 6mm hole	PP SC, yellow, 6mm hole	PP SC, blue, closed top
Septa	PTFE virginal, 53° shore D, 0,2mm						
100 pcs. per PE-Bag							

3.4.2 Natural Rubber/TEF Seals

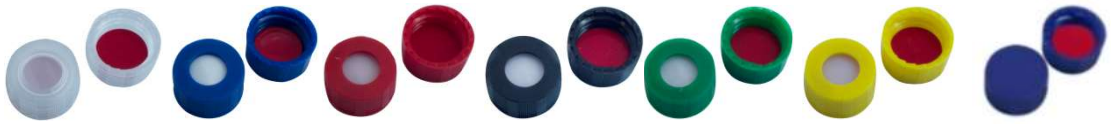
- Ideal for multiple injections due to its reclosing properties
- Temperature resistant from -40° C to 120° C
- Used frequently in GC and HPLC



Art. No.	SVB090659	SVB090433	SVB090435	SVB090436	SVB090434	SVB090432	SVB090786
Cap	PP SC, transparent, 6mm hole	PP SC, blue, 6mm hole	PP SC, red, 6mm hole	PP SC, black, 6mm hole	PP SC, green, 6mm hole	PP SC, yellow, 6mm hole	PP SC, blue, closed top
Septa	Natural Rubber red-orange/TEF transparent, 60° shore A, 1,0mm						
100 pcs. per PE-Bag							

3.4.3 Silicone white/PTFE red Seals

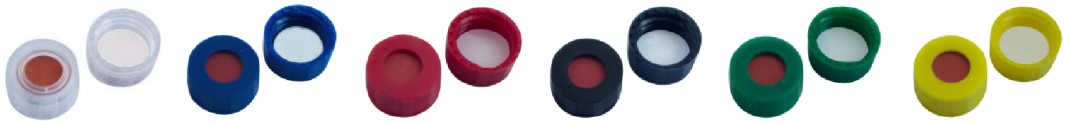
➢Is the purest synthetic elastomer and is therefore used for critical analyses
➢Temperature resistance from -60° C to 200° C
➢Preferably recommended for single use injections due to less good reclosing properties



Art. No.	SVB090661	SVB090159	SVB090666	SVB090166	SVB090162	SVB090160	SVB090787
Cap	PP SC, transparent, 6mm hole	PP SC, blue, 6mm hole	PP SC, red, 6mm hole	PP SC, black, 6mm hole	PP SC, green, 6mm hole	PP SC, yellow, 6mm hole	PP SC, blue, closed top
Septa	Silicone white/PTFE red, 55° shore A,1,0mm						
100 pcs. per PE-Bag							

3.4.4 RedRubber/PTFE beige Seals

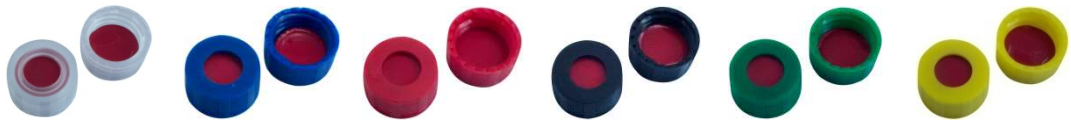
➢New synthetic rubber comparable to silicone in terms of purity
➢Temperature resistance from -40° C to 150° C
➢Preferably recommended for single use injections due to less good reclosing properties



Art. No.	SVB090775	SVB090776	SVB090777	SVB090778	SVB090779	SVB090780
Cap	PP SC, transparent, 6mm hole	PP SC, blue, 6mm hole	PP SC, red, 6mm hole	PP SC, black, 6mm hole	PP SC, green, 6mm hole	PP SC, yellow, 6mm hole
Septa	RedRubber/PTFE beige, 45° shore A, 1,0mm					
100 pcs. per PE-Bag						

3.4.5 PTFE red/Silicone white/PTFE red Seals

➢Is the purest synthetic elastomer and is therefore used for critical analyses
➢Temperature resistance from -60° C to 200° C
➢Silicone septa coated with PTFE on both sides for low particle formation



Art. No.	SVB090663	SVB090164	SVB090668	SVB090167	SVB090675	SVB090678
Cap	PP SC, transparent, 6mm hole	PP SC, blue, 6mm hole	PP SC, red, 6mm hole	PP SC, black, 6mm hole	PP SC, green, 6mm hole	PP SC, yellow, 6mm hole
Septa	PTFE red/Silicone white/PTFE red, 45° shore A, 1,0mm					
100 pcs. per PE-Bag						

3.4.6 Silicone white/Alu Seals

➢Temperature resistance from -60° C to 200° C

Art. No.	SVB090913	SVB090948	SVB090949	SVB090952	SVB090950	SVB090951
Cap	PP SC, transparent, 6mm hole	PP SC, blue, 6mm hole	PP SC, red, 6mm hole	PP SC, black, 6mm hole	PP SC, green, 6mm hole	PP SC, yellow, 6mm hole
Septa	Silicone white/Aluminum foil silver, 50° shore A, 1,0mm					
100 pcs. per PE-Bag						

3.4.7 (Y-pre-cut) Seals

- With pre-cut septa only the silicone material is slit in Y-shape while the PTFE lamination remains intact. This way concentration changes occurring with completely slit septa can be avoided.
- Ideal penetration aid for blunt and thick instrument needles, and prevents the concentration fluctuations that frequently occur with slit or cross slit septa




Art. No.	SVB091241	SVB091240	SVB091239	SVB091234
Cap	PP SC, transparent, 6mm hole	PP SC, blue, 6mm hole	PP SC, transparent, 6mm hole	PP SC, blue, 6mm hole
Septa	Silicone white/PTFE red, 55° shore A,1,0mm (**Y-slit**)		Silicone white/PTFE red, 55° shore A,1,0mm (**Y-pre-cut**)	
100 pcs. per PE-Bag				

3.4.8 Silicone white/PTFE blue, slit Seals

- Is the purest synthetic elastomeric and is therefore used for critical analyses
- Temperature resistance from -60° C to 200° C
- Preferably recommended for single use injections due to less good reclosing properties
- Slit septa in HPLC as penetration aid for blunt needles and to create a valve effect in case of multiple injections
- Application in GC, HPLC and headspace analysis






Art. No.	SVB090662	SVB090187	SVB090667	SVB090163	SVB090674	SVB090677
Cap	PP SC, transparent, 6mm hole	PP SC, blue, 6mm hole	PP SC, red, 6mm hole	PP SC, black, 6mm hole	PP SC, green, 6mm hole	PP SC, yellow, 6mm hole
Septa	Silicone white/PTFE blue, slit, 55° shore A, 1,0mm					
100 pcs. per PE-Bag						

3.4.9 Seals for high temperature analysis and trace analysis

- 9mm short thread seals with high purity PTFE virginal, or Aluminum septa
- **Perfect for GC-MS and LC-MS**
- An O-ring ensures 100% tightness

Chromatogram GC/MS




Art. No.	SVB091005	SVB091004	SVB091007	SVB091006
Cap	PP SC, transparent, w. hole	PP SC, blue, w. hole	PP SC, transparent, w. hole	PP SC, blue, w. hole
Septa	Aluminum Septa **(additional sealing through O-ring)**	Aluminum Septa **(additional sealing through O-ring)**	PTFE virginal, 0,25mm **(additional sealing by O-ring)**	PTFE virginal, 0,25mm **(additional sealing by O-ring)**
Hardness			53° shore A	53° shore A
Thickness	0,06mm	0,06mm	0,20mm	0,20mm
100 pcs. per PE-Bag				

3.4.10 UltraBond Seals ND9

(Cap + Liner form an inseparable unit, so that the liner cannot be pushed into the vial even with a blunt needle)

- A special feature of an UltraBond closure system is that the screw cap and septa form an inseparable unit. This is made of a patented manufacturing process in which the molecular structure of the contact surface of the PP screw cap and the septa is modified in such a way that they form a strong bond without the use of adhesives.
- Comparable systems on the market are LECTRABOND Seals from WATERS® and the INTERSEAL closure from Agilent



Art. No.	SVB090165	SVB090772	SVB090773
Cap	PP SC, blue, 6mm hole	PP SC, blue, 6mm hole	PP SC, blue, 6mm hole
Septa	Silicone white/PTFE red	Silicone beige/PTFE white	Silicone beige/PTFE white, **slit**
Hardness	45° shore A	45° shore A	45° shore A
Thickness	1,3mm	1,0mm	1,0mm
100 pcs. per PE-Bag			

3.4.11 Magnetic Short Thread Seals, 6mm centre hole

(for CTC GC PAL + Thermo Scientific TriPlus Autosampler)

- More convenient and safer in handling than 11mm magnetic crimp seals.
- Ready-to-use closures.



Art. No.	SVB091153	SVB091173	SVB091124
Cap	PP SC, blue, with assembled magnetic crimp cap ND11, gold, 6mm hole	PP SC, blue, with assembled magnetic crimp cap ND11, gold, 6mm hole	PP SC, blue, with assembled magnetic crimp cap ND11, gold, 6mm hole
Septa	Silicone white/PTFE red	Silicone white/PTFE blue, slit	Natural Rubber red-orange/TEF transparent
Hardness	45° shore A	55° shore A	60° shore A
Thickness	1,0mm	1,0mm	1,0mm
100 pcs. per PE-Bag			

3.4.12 9mm Short Thread PP Cap with thinned penetration area

Art. No.	SKB091314
Cap	PE screw cap with thinned penetration area, transparent
100 pcs. per PE-Bag	

5 Special 2in1 Kits for Short Thread ND9

- Each combination of a short-thread vial ND9 is now available with any 9mm short-thread seal listed in the catalogue as a practical 2in1 kit!

100 Vials and 100 Seals per Box

6 Short thread vials ND9, with pre-assembled screw seals ND9

- Prescrewed vials reduce the risk of contamination of the vials in the laboratory. Furthermore, special applications (e.g. in the tobacco industry) may require a pre-sealed vial.