

5.3.3 Silicone/PTFE Seals

- Cross-slitted liner as penetration aid and for low coring, but also for avoiding vacuum in the vial in case of multiple injections.
- Temperature resistant from -60°C up to 200°C.
- Much cleaner than Natural Rubber, RedRubber or Butyl.



Art. No.	11 03 0247	11 03 0362	11 03 0885	11 03 0196	11 03 0464	11 03 1625	11 03 0666	11 03 0667	11 03 1624
Description Cap	Aluminum Cap clear lacquered, 5.5mm centre hole	Aluminum Cap clear lacquered, 5.5mm centre hole	Aluminum Cap clear lacquered, 5.5mm centre hole	Aluminum Cap clear lacquered, 5.5mm centre hole	Aluminum Cap clear lacquered, 5.5mm centre hole	Aluminum Cap green lacquered, 5.5mm centre hole	Aluminum Cap red lacquered, 5.5mm centre hole	Aluminum Cap blue lacquered, 5.5mm centre hole	Aluminum Cap gold lacquered, 5.5mm centre hole
Septa Material	Silicone white/PTFE red <i>UltraClean</i>	Silicone cream/PTFE red	Silicone dark blue/PTFE white	PTFE red/Silicone white/PTFE red	Silicone white/PTFE blue, cross-slitted	Silicone white/PTFE red <i>UltraClean</i>	Silicone white/PTFE red <i>UltraClean</i>	Silicone white/PTFE red <i>UltraClean</i>	Silicone white/PTFE red <i>UltraClean</i>
Durometer	45° shore A	55° shore A	45° shore A	45° shore A	55° shore A	45° shore A	45° shore A	45° shore A	45° shore A
Thickness	1.3mm	1.5mm	1.3mm	1.0mm	1.5mm	1.3mm	1.3mm	1.3mm	1.3mm

100 pcs. per PE-Bag

5.3.4 Other Aluminum Crimp Seals

- Total Phthalate Free Seal (TPF Seal), Septa material free of any elastomers and halogens.
- PTFE is very inert and high temperature resistant mainly for uncritical HPLC analysis.
- Butyl as synthetic rubber is much cleaner than Nat. Rubber.
- Butyl is temperature resistant from -40°C up to 120°C.



Art. No.	11 03 2519	11 03 2578	11 03 0339	11 03 1641	11 03 1663
Description Cap	11mm TPF Combination Seal: Aluminum Cap, clear lacquered, 5.5 mm centre hole	11mm Combination Seal: Aluminum Cap, clear lacquered, 5.5 mm centre hole	Aluminum Cap clear lacquered, 5.5mm centre hole, roll groove	Aluminum Cap clear lacquered, 5.5mm centre hole	Aluminum Cap clear lacquered, 5.5mm centre hole
Septa Material	Aluminum liner, (sealed by an additional assembled ring)	PTFE virginal (sealed by an additional assembled ring)	PTFE virginal	Butyl red/PTFE grey	PTFE grey/Butyl red/PTFE grey
Durometer		53° shore D	53° shore D	55° shore A	55° shore A
Thickness	0.06mm	0.25mm	0.25mm	1.3mm	1.3mm

All before-mentioned crimp seals are also available with gold, green, blue and red caps (with the exception of 11 03 0339, 11 03 2519 and 11 03 2578))

100 pcs. per PE-Bag

5.4 Magnetic Crimp Seals ND11

(for CTC PAL + Thermo Scientific TriPlus Autosampler)



Art. No.	11 03 0318	11 03 0332
Description Cap	Magnetic Cap, gold lacquered, 5mm centre hole	Magnetic Cap, gold lacquered, 5mm centre hole
Septa Material	Silicone white/PTFE red <i>UltraClean</i>	PTFE red/Silicone white/PTFE red
Durometer	45° shore A	45° shore A
Thickness	1.3mm	1.0mm

100 pcs. per PE-Bag

5.5 Other Combination Seals for Crimp Neck ND11



Art. No.	13 15 0996
Description Cap	PE-Cap, transparent, 13 x 7.5mm, 4.5mm centre hole
Septa Material	Silicone white/PTFE red <i>UltraClean</i>
Durometer	55° shore A
Thickness	1.0mm

100 pcs. per PE-Bag

5.6 Septa 11mm



Art. No.	11 02 0176	11 02 0534	11 02 1145	11 02 1876	11 02 1634	11 02 1662
Description	PTFE virginal	Nat. Rubber red-orange/TEF transparent	Nat. Rubber red-orange/TEF transparent, tested by VWR (Merck®)/Hitachi	RedRubber/PTFE beige	Butyl red/PTFE grey	PTFE grey/Butyl red/PTFE grey
Durometer	53° shore D	60° shore A	60° shore A	45° shore A	55° shore A	55° shore A
Thickness	0.25mm	1.0mm	1.3mm	1.0mm	1.3mm	1.3mm

1000 pcs. per PE-Bag