

## 5.2 Micro-Inserts for Crimp Neck Vials ND11 with wide opening



| Art. No.                | 06 09 0357                                                                                        | 06 09 0669                                                                                        | 06 09 0865                                                                                                               | 06 09 0866                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Description             | 0.1ml<br>Micro-Insert,<br>31 x 6mm,<br>clear glass,<br>1 <sup>st</sup> hydrol. class,<br>15mm top | 0.1ml<br>Micro-Insert,<br>31 x 6mm,<br>clear glass,<br>1 <sup>st</sup> hydrol. class,<br>12mm top | 0.1ml<br>Micro-Insert,<br>29 x 5.7mm,<br>clear glass,<br>1 <sup>st</sup> hydrol. class,<br>with assembled plastic spring | 0.2ml<br>Micro-Insert,<br>31 x 6mm,<br>clear glass,<br>1 <sup>st</sup> hydrol. class,<br>flat bottom |
|                         | <b>SILANIZED 06 09 1240</b>                                                                       |                                                                                                   | <b>SILANIZED 06 09 1343</b>                                                                                              | <b>SILANIZED 06 09 1792</b>                                                                          |
| TFVol. (ml)             | 0.34                                                                                              | 0.35                                                                                              | 0.3                                                                                                                      | 0.5                                                                                                  |
| UsVol. (ml)             | 0.25                                                                                              | 0.3                                                                                               | 0.25                                                                                                                     | 0.35                                                                                                 |
| MWVol. (µl)             | 30                                                                                                | 30                                                                                                | 30                                                                                                                       | 40                                                                                                   |
| Res. Vol. (µl)          | <4                                                                                                | <4                                                                                                | <4                                                                                                                       | <8                                                                                                   |
| 10 x 100 pcs.per PP-Box |                                                                                                   |                                                                                                   |                                                                                                                          |                                                                                                      |

## 5.3 Aluminum Crimp Seals ND11

### 5.3.1 Natural Rubber/TEF Seals

- Three layer septa of Natural Rubber/Butyl/TEF combines the good physical properties of Nat. Rubber (resealability) with the good chemical properties of Butyl (cleanliness).
- Temperature resistant from -40°C up to 120°C.
- Standard seal for GC and HPLC.
- Ideal for multiple injections due to high resealability.



| Art. No.            | 11 03 0209                                                                | 11 03 0300                                           | 11 03 0535                                         | 11 03 0301                                           | 11 03 0302                                           | 11 03 0303                                           | 11 03 0304                                           |
|---------------------|---------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Description Cap     | Aluminum Cap clear lacquered,<br>5.5mm centre hole                        | Aluminum Cap clear lacquered,<br>5.5mm centre hole   | Aluminum Cap clear lacquered,<br>5.5mm centre hole | Aluminum Cap green lacquered,<br>5.5mm centre hole   | Aluminum Cap red lacquered,<br>5.5mm centre hole     | Aluminum Cap blue lacquered,<br>5.5mm centre hole    | Aluminum Cap gold lacquered,<br>5.5mm centre hole    |
| Septa Material      | Nat. Rubber red-orange/<br>TEF transparent<br><b>approved IM Quality*</b> | Nat. Rubber red-orange/<br>Butyl red/TEF transparent | Nat. Rubber red-orange/<br>TEF transparent         | Nat. Rubber red-orange/<br>Butyl red/TEF transparent | Nat. Rubber red-orange/<br>Butyl red/TEF transparent | Nat. Rubber red-orange/<br>Butyl red/TEF transparent | Nat. Rubber red-orange/<br>Butyl red/TEF transparent |
| Durometer           | 60° shore A                                                               | 45° shore A                                          | 60° shore A                                        | 45° shore A                                          | 45° shore A                                          | 45° shore A                                          | 45° shore A                                          |
| Thickness           | 1.0mm                                                                     | 1.0mm                                                | 1.0mm                                              | 1.0mm                                                | 1.0mm                                                | 1.0mm                                                | 1.0mm                                                |
| 100 pcs. per PE-Bag |                                                                           |                                                      |                                                    |                                                      |                                                      |                                                      |                                                      |

### 5.3.2 RedRubber/PTFE Seals

- Temperature resistant from -40°C up to 110°C.
- Cleaner than Natural Rubber or Butyl; low fragmentation.
- softer alternative to Natural Rubber/TEF and Butyl/PTFE.
- RedRubber is a synthetic rubber.



| Art. No.            | 11 03 1875                                                              | 11 03 1984                                         | 11 03 1985                                       | 11 03 1986                                        | 11 03 1987                                        |
|---------------------|-------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Description Cap     | Aluminum Cap clear lacquered,<br>5.5mm centre hole                      | Aluminum Cap green lacquered,<br>5.5mm centre hole | Aluminum Cap red lacquered,<br>5.5mm centre hole | Aluminum Cap blue lacquered,<br>5.5mm centre hole | Aluminum Cap gold lacquered,<br>5.5mm centre hole |
| Septa Material      | RedRubber/PTFE beige<br><b>approved Instrument Manufacturer Quality</b> |                                                    |                                                  |                                                   |                                                   |
| Durometer           | 45° shore A                                                             | 45° shore A                                        | 45° shore A                                      | 45° shore A                                       | 45° shore A                                       |
| Thickness           | 1.0mm                                                                   | 1.0mm                                              | 1.0mm                                            | 1.0mm                                             | 1.0mm                                             |
| 100 pcs. per PE-Bag |                                                                         |                                                    |                                                  |                                                   |                                                   |