

## Thermo Scientific Matrix SepraSeal and DuraSeal Sealing Systems

For manual, semi-automated and automation-compatible sample storage and retrieval

Thermo Scientific™ Matrix™ SepraSeal™ and DuraSeal™ tube sealing solutions complement the innovative line of Matrix storage tubes. The flexibility of individual tube capping combined with the pierceable cap design allows individual sample access even while the storage tubes remain sealed.

SepraSeal caps are made from an advanced thermoplastic elastomer that has good chemical resistance with stored samples\* down to -20°C. This elastomer ensures sealing performance will not degrade, even after multiple piercings.

Offered in eight colors for easy sample identification, SepraSeal caps are available in solid or pre-split cap designs. To access samples, solid seals can be removed with the SepraSeal cap removal tool or pierced by a liquid handling needle. The pre-split design is recommended for repeated sample access with little force required. Seal integrity is maintained due to the self-closing nature of the elastomer. SepraSeal caps are available sterile or non-sterile.

Supplied in mats of 96 caps each, SepraSeal caps are applied to a rack of 96 tubes with the appropriate amount of pressure using the Thermo Scientific™ SuperSealer™ instrument. Sealing is secure and consistent every time.

DuraSeal caps are available bulk, or permanently-installed in Matrix 0.5, 0.75 or 1.4mL open-top storage tubes. DuraSeal caps (available in natural color only) provide sample protection and good chemical resistance\* down to -80°C.

The V-shape design of DuraSeal caps is ideal for applications requiring multiple piercings, guiding liquid handling needles to the same location by design. Seal integrity is maintained due to the self-closing nature of the elastomer. The elastomer ensures sealing performance will not degrade, even after multiple piercings.

\*Thermo Fisher Scientific advises that customers always perform testing of our products with critical solutions to determine fit for use in their specific applications.



### Applications

- Temporary sealing of sample storage tubes from ambient to -20°C
- Compound storage and retrieval
- Automated sample access and sub-aliquoting



### Key Features

**Elastomer material extensively tested for chemical compatibility**

**Available solid or pre-split**

**Versatility in sample protection with SepraSeal and DuraSeal options**

**SepraSeal is available in multiple color options**

### Benefits

- Confidence in chemical integrity of samples stored across a broad temperature range
- Low expectation of leachables and extractables when used in typical sample solutions
- Solid format provides longer term storage and is compatible with both manual and automated workflows
- The self-closing material in the pre-split format enables repeated sample access in automation while maintaining sample integrity
- SepraSeals offer the most flexibility in format options (solid vs. split, multiple colors)
- Duraseals provide a wider temperature range for sample storage and a more robust protective barrier from atmospheric effects of storage conditions
- Eight colors allow for visual categorization of samples
- Flexibility in identification within the lab or across facilities

## Thermo Scientific Matrix SepraSeal Caps

|                       |  |
|-----------------------|--|
| Cap Material          | Thermoplastic Elastomer  |
| Backing Mat Material  | Styrene Butadiene  |
| Compatibility         | Thermo Scientific Matrix, Thermo Scientific Abgene and most other 7mm open-top tubes |
| Autoclavable          | Caps: Yes; Backing mat: No   |
| Cap Temperature Range | -20°C to +100°C  |

## Thermo Scientific Matrix DuraSeal Caps

|                       |  |
|-----------------------|--|
| Cap Material          | Thermoplastic Elastomer  |
| Backing Mat Material  | None – caps are bulk or pre-installed  |
| Compatibility         | Thermo Scientific Matrix, Thermo Scientific Abgene and most other 7mm open-top tubes |
| Autoclavable          | Yes  |
| Cap Temperature Range | -80°C to +100°C  |

## SepraSeal and DuraSeal Purchasing Information

| Cat. No.         | Description                            | Tube Vol., mL | Qty                             | Sterility   |
|------------------|--|---------------|---------------------------------|-------------|
| 3737             | Matrix 2D tube with DuraSeal installed | 0.5           | 10 latch racks of 96 tubes/case | Sterile     |
| 3736             | Matrix 2D tube with DuraSeal installed | 0.5           | 10 latch racks of 96 tubes/case | Non-sterile |
| 3729             | Matrix 2D tube with DuraSeal installed | 0.75          | 10 latch racks of 96 tubes/case | Non-sterile |
| 3792             | Matrix 2D tube with DuraSeal installed | 1.4           | 10 latch racks of 96 tubes/case | Sterile     |
| 3801             | Matrix 2D tube with DuraSeal installed | 1.4           | 10 latch racks of 96 tubes/case | Non-sterile |
| <b>Cap Color</b> |  |               |                                 |             |
| 4490             | DuraSeal Caps, Bulk                    | Natural       | 500 plugs/case                  | Non-sterile |
| 4463             | SepraSeal Caps                         | Natural       | 10 mats of 96 caps/case         | Non-sterile |
| 4463RED          | SepraSeal Caps                         | Red           | 10 mats of 96 caps/case         | Non-sterile |
| 4463YEL          | SepraSeal Caps                         | Yellow        | 10 mats of 96 caps/case         | Non-sterile |
| 4463BLU          | SepraSeal Caps                         | Blue          | 10 mats of 96 caps/case         | Non-sterile |
| 4463GRE          | SepraSeal Caps                         | Green         | 10 mats of 96 caps/case         | Non-sterile |
| 4463PIN          | SepraSeal Caps                         | Pink          | 10 mats of 96 caps/case         | Non-sterile |
| 4463PUR          | SepraSeal Caps                         | Purple        | 10 mats of 96 caps/case         | Non-sterile |
| 4463GRY          | SepraSeal Caps                         | Gray          | 10 mats of 96 caps/case         | Non-sterile |
| 4464             | SepraSeal Caps                         | Natural       | 10 mats of 96 caps/case         | Sterile     |
| 4464RED          | SepraSeal Caps                         | Red           | 10 mats of 96 caps/case         | Sterile     |
| 4464YEL          | SepraSeal Caps                         | Yellow        | 10 mats of 96 caps/case         | Sterile     |
| 4464BLU          | SepraSeal Caps                         | Blue          | 10 mats of 96 caps/case         | Sterile     |
| 4464GRE          | SepraSeal Caps                         | Green         | 10 mats of 96 caps/case         | Sterile     |
| 4464PIN          | SepraSeal Caps                         | Pink          | 10 mats of 96 caps/case         | Sterile     |
| 4464PUR          | SepraSeal Caps                         | Purple        | 10 mats of 96 caps/case         | Sterile     |
| 4464GRY          | SepraSeal Caps                         | Gray          | 10 mats of 96 caps/case         | Sterile     |
| 4465             | SepraSeal, Pre-Split Caps              | Natural       | 10 mats of 96 caps/case         | Non-sterile |
| 4465RED          | SepraSeal, Pre-Split Caps              | Red           | 10 mats of 96 caps/case         | Non-sterile |
| 4465YEL          | SepraSeal, Pre-Split Caps              | Yellow        | 10 mats of 96 caps/case         | Non-sterile |
| 4465BLU          | SepraSeal, Pre-Split Caps              | Blue          | 10 mats of 96 caps/case         | Non-sterile |
| 4465GRE          | SepraSeal, Pre-Split Caps              | Green         | 10 mats of 96 caps/case         | Non-sterile |
| 4465PIN          | SepraSeal, Pre-Split Caps              | Pink          | 10 mats of 96 caps/case         | Non-sterile |
| 4465PUR          | SepraSeal, Pre-Split Caps              | Purple        | 10 mats of 96 caps/case         | Non-sterile |
| 4465GRY          | SepraSeal, Pre-Split Caps              | Gray          | 10 mats of 96 caps/case         | Non-sterile |
| 4466             | SepraSeal, Pre-Split Caps              | Natural       | 10 mats of 96 caps/case         | Sterile     |
| 4466RED          | SepraSeal, Pre-Split Caps              | Red           | 10 mats of 96 caps/case         | Sterile     |
| 4466YEL          | SepraSeal, Pre-Split Caps              | Yellow        | 10 mats of 96 caps/case         | Sterile     |
| 4466BLU          | SepraSeal, Pre-Split Caps              | Blue          | 10 mats of 96 caps/case         | Sterile     |
| 4466GRE          | SepraSeal, Pre-Split Caps              | Green         | 10 mats of 96 caps/case         | Sterile     |
| 4466PIN          | SepraSeal, Pre-Split Caps              | Pink          | 10 mats of 96 caps/case         | Sterile     |
| 4466PUR          | SepraSeal, Pre-Split Caps              | Purple        | 10 mats of 96 caps/case         | Sterile     |
| 4466GRY          | SepraSeal, Pre-Split Caps              | Gray          | 10 mats of 96 caps/case         | Sterile     |

Find out more at [thermofisher.com/samplestorage](http://thermofisher.com/samplestorage)