

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		Thermo Scientific Matrix DuraSeal Caps	
Cap Material	Thermoplastic Elastomer	Cap Material	Thermoplastic Elastomer
Backing Mat Material	Styrene Butadiene	Backing Mat Material	None – caps are bulk or pre-installed
Compatibility	Thermo Scientific Matrix, Thermo Scientific Abgene and most other 7mm open-top tubes	Compatibility	Thermo Scientific Matrix, Thermo Scientific Abgene and most other 7mm open-top tubes
Autoclavable	Caps: Yes; Backing mat: No	Autoclavable	Yes
Cap Temperature Range	-20°C to +100°C	Cap Temperature Range	-80°C to +100°C

SeptraSeal 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
Cap Color				
4490	DuraSeal Caps, Bulk	Natural	500 plugs/case	Non-sterile
4463	SeptraSeal Caps	Natural	10 mats of 96 caps/case	Non-sterile
4463RED	SeptraSeal Caps	Red	10 mats of 96 caps/case	Non-sterile
4463YEL	SeptraSeal Caps	Yellow	10 mats of 96 caps/case	Non-sterile
4463BLU	SeptraSeal Caps	Blue	10 mats of 96 caps/case	Non-sterile
4463GRE	SeptraSeal Caps	Green	10 mats of 96 caps/case	Non-sterile
4463PIN	SeptraSeal Caps	Pink	10 mats of 96 caps/case	Non-sterile
4463PUR	SeptraSeal Caps	Purple	10 mats of 96 caps/case	Non-sterile
4463GRY	SeptraSeal Caps	Gray	10 mats of 96 caps/case	Non-sterile
4464	SeptraSeal Caps	Natural	10 mats of 96 caps/case	Sterile
4464RED	SeptraSeal Caps	Red	10 mats of 96 caps/case	Sterile
4464YEL	SeptraSeal Caps	Yellow	10 mats of 96 caps/case	Sterile
4464BLU	SeptraSeal Caps	Blue	10 mats of 96 caps/case	Sterile
4464GRE	SeptraSeal Caps	Green	10 mats of 96 caps/case	Sterile
4464PIN	SeptraSeal Caps	Pink	10 mats of 96 caps/case	Sterile
4464PUR	SeptraSeal Caps	Purple	10 mats of 96 caps/case	Sterile
4464GRY	SeptraSeal Caps	Gray	10 mats of 96 caps/case	Sterile
4465	SeptraSeal, Pre-Split Caps	Natural	10 mats of 96 caps/case	Non-sterile
4465RED	SeptraSeal, Pre-Split Caps	Red	10 mats of 96 caps/case	Non-sterile
4465YEL	SeptraSeal, Pre-Split Caps	Yellow	10 mats of 96 caps/case	Non-sterile
4465BLU	SeptraSeal, Pre-Split Caps	Blue	10 mats of 96 caps/case	Non-sterile
4465GRE	SeptraSeal, Pre-Split Caps	Green	10 mats of 96 caps/case	Non-sterile
4465PIN	SeptraSeal, Pre-Split Caps	Pink	10 mats of 96 caps/case	Non-sterile
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4466	SeptraSeal, Pre-Split Caps	Natural	10 mats of 96 caps/case	Sterile
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4466YEL	SeptraSeal, Pre-Split Caps	Yellow	10 mats of 96 caps/case	Sterile
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4466GRY	SeptraSeal, Pre-Split Caps	Gray	10 mats of 96 caps/case	Sterile

Find out more at thermofisher.com/samplestorage