

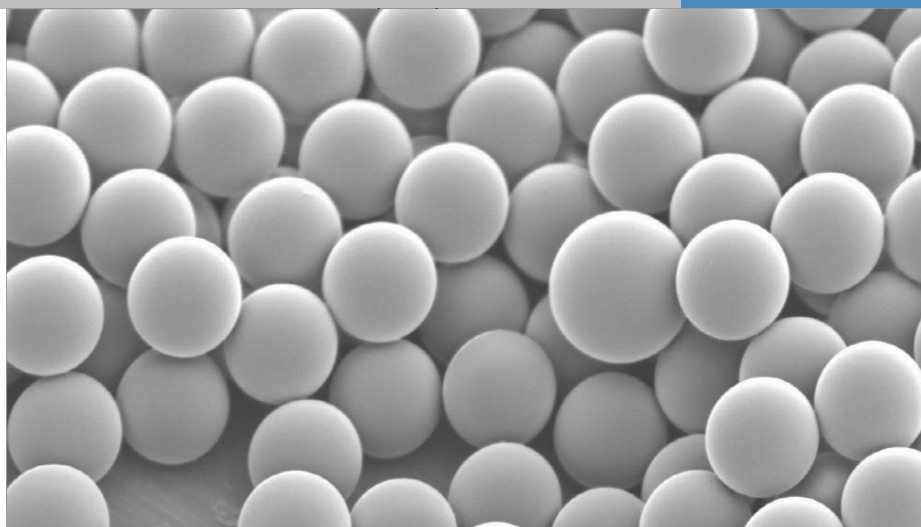
## Thermo Scientific Polymer Particles

- Opti-Bind Sulfate
- Opti-Link Carboxylate-Modified

Thermo Scientific Opti-Bind Sulfate and Opti-Link Carboxylate-modified polymer particles are used in molecular biology and clinical diagnostics applications. Some of these include lateral flow strip tests, latex slide agglutination assays, suspension array tests, turbidimetric tests, and nephelometric assays.



From clinical immunoassays and molecular biology sample preparation to research applications, our Opti-Bind and Opti-Link particles are critical components for many of the world's leading diagnostic and molecular biology companies.



- These particles can be used directly from the bottle without any pre-washing for most applications for convenience and ease-of-use
- Proprietary anionic surfactant does not interfere with the binding of proteins, nor cause proteins to desorb from particle surfaces
- Variety of surface chemistries accommodates a wide range of coupling strategies
- Prepared without common surfactants (SDS, Tween 20, Triton X-100, etc.) that can interfere with protein binding to particle surface

### Opti-Bind

Opti-Bind particles are available in a wide range of diameters from 0.1  $\mu\text{m}$  to 2.5  $\mu\text{m}$  and are optimized for maximum reactivity in turbidimetric assays and many diagnostic applications. The sulfate surface is very hydrophobic and adsorbs proteins almost instantaneously.

### Opti-Link

Opti-Link carboxylate-modified particles contain carboxylic acid groups for covalent coupling and can be used in a variety of applications. Available diameters range from 0.04  $\mu\text{m}$  to 5.0  $\mu\text{m}$  in size. The various acid content available within the Opti-Link product line enables control of sensitivity, specificity and stability. Parking area combines surface area and acid content to provide the surface acid distribution that is useful for assay optimization.

## Thermo Scientific Polymer Particles

### Opti-Bind Sulfate and Opti-Link Carboxylate Modified Particles

#### Specifications

|                         | Opti-Bind   | Opti-Link                     |
|-------------------------|---|-------------------------------|
| Particle Composition    | Polystyrene   | Polystyrene                   |
| Nominal diameter range  | 0.1 to 2.5 µm   | 0.04 to 5.0 µm                |
| % Solids*               | 4% (azide), 10% (pasteurized)   | 4% (azide), 10% (pasteurized) |
| Additives               | 0.05% Sodium Azide  | 0.05% Sodium Azide            |
| Tight size distribution | CV< 2%  | CV< 2%                        |
| Documentation           | Package Insert Sheet containing Certificate of Analysis , Material Safety Data Sheet (MSDS) available upon request  |                               |
| Storage conditions      | Unless otherwise stated, refrigerate (2-8 °C) product when not in use but do not freeze. Store upright and keep bottle tightly sealed. Mix product with gentle inversion by hand or vortex mixer. |                               |

\* Refer to Opti-Bind or Opti-Link table below to see which particles have a low, medium or high surface area with either an azide or pasteurized post process.

#### Opti-Bind

| Nominal Diameter | Bottle Size | Surface Area Loading/Post Process | Catalog Number   | Nominal Diameter | Bottle Size | Surface Area Loading/Post Process | Catalog Number   |
|------------------|-------------|-----------------------------------|------------------|------------------|-------------|-----------------------------------|------------------|
| 0.1 µm           | 15 mL       | Low SO4/Pasteurized               | 8100-0397-100290 | 0.6 µm           | 15 mL       | Low SO4/Pasteurized               | 9100-1397-100290 |
| 0.1 µm           | 100 mL      | Low SO4/Pasteurized               | 8100-0397-100390 | 0.6 µm           | 100 mL      | Low SO4/Pasteurized               | 9100-1397-100390 |
| 0.2 µm           | 15 mL       | Low SO4/Pasteurized               | 8100-0597-100290 | 0.85 µm          | 15 mL       | Low SO4/Pasteurized               | 9100-1897-100290 |
| 0.2 µm           | 100 mL      | Low SO4/Pasteurized               | 8100-0597-100390 | 0.85 µm          | 100 mL      | Low SO4/Pasteurized               | 9100-1897-100390 |
| 0.3 µm           | 15 mL       | Low SO4/Pasteurized               | 8100-0797-100290 | 1.25 µm          | 15 mL       | Low SO4/Pasteurized               | 7100-2697-100250 |
| 0.3 µm           | 100 mL      | Low SO4/Pasteurized               | 8100-0797-100390 | 1.25 µm          | 100 mL      | Low SO4/Pasteurized               | 7100-2697-100350 |
| 0.4 µm           | 15 mL       | Low SO4/Pasteurized               | 8100-0997-100290 | 2.5 µm           | 15 mL       | Low SO4/0.05% Azide               | 7100-3497-100250 |
| 0.4 µm           | 100 mL      | Low SO4/Pasteurized               | 8100-0997-100390 | 2.5 µm           | 100 mL      | Low SO4/0.05% Azide               | 7100-3497-100350 |

#### Opti-Link

| Nominal Diameter | Bottle Size | Surface Area Loading/Post Process | Catalog Number   | Nominal Diameter | Bottle Size | Surface Area Loading/Post Process | Catalog Number   |
|------------------|-------------|-----------------------------------|------------------|------------------|-------------|-----------------------------------|------------------|
| 0.04 µm          | 15 mL       | Low Acid/Azide                    | W004CA           | 0.5 µm           | 15 mL       | Medium Acid/Azide                 | W050CA           |
| 0.04 µm          | 100 mL      | Low Acid/Azide                    | W004CB           | 0.5 µm           | 100 mL      | Medium Acid/Azide                 | W050CB           |
| 0.2 µm           | 15 mL       | Low Acid/Pasteurized              | 9300-0570-100290 | 0.85 µm          | 15 mL       | Medium Acid/Azide                 | W080CA           |
| 0.2 µm           | 100 mL      | Low Acid/Pasteurized              | 9300-0570-100390 | 0.85 µm          | 100 mL      | Medium Acid/Azide                 | W080CB           |
| 0.2 µm           | 15 mL       | Med. Acid/Pasteurized             | 8300-0550-100290 | 0.85 µm          | 15 mL       | Low Acid/Pasteurized              | 9300-1891-100290 |
| 0.2 µm           | 100 mL      | Med. Acid/Pasteurized             | 8300-0550-100390 | 0.85 µm          | 100 mL      | Low Acid/Pasteurized              | 9300-1891-100390 |
| 0.2 µm           | 15 mL       | High Acid/Pasteurized             | 8300-0520-100290 | 0.9 µm           | 15 mL       | High Acid/Azide                   | W090CA           |
| 0.2 µm           | 100 mL      | High Acid/Pasteurized             | 8300-0520-100390 | 0.9 µm           | 100 mL      | High Acid/Azide                   | W090CB           |
| 0.3 µm           | 15 mL       | Med. Acid/Pasteurized             | 8300-0750-100290 | 2.0 µm           | 15 mL       | PA5, High Acid                    | 7300-3305-100250 |
| 0.3 µm           | 100 mL      | Med. Acid/Pasteurized             | 8300-0750-100390 | 2.0 µm           | 100 mL      | PA5, High Acid                    | 7300-3305-100350 |
| 0.3 µm           | 15 mL       | High Acid/Pasteurized             | 8300-0720-100290 | 3.0 µm           | 15 mL       | PA20, High Acid                   | 7300-3420-100250 |
| 0.3 µm           | 100 mL      | High Acid/Pasteurized             | 8300-0720-100390 | 3.0 µm           | 100 mL      | PA20, High Acid                   | 7300-3420-100350 |
| 0.4 µm           | 15 mL       | Low Acid/Pasteurized              | 8300-0970-100290 | 4.0 µm           | 15 mL       | High Acid/Azide                   | W400CA           |
| 0.4 µm           | 100 mL      | Low Acid/Pasteurized              | 8300-0970-100390 | 4.0 µm           | 100 mL      | High Acid/Azide                   | W400CB           |
| 0.4 µm           | 15 mL       | High Acid/Pasteurized             | 8300-0920-100290 | 5.0 µm           | 15 mL       | High Acid/Azide                   | W500CA           |
| 0.4 µm           | 100 mL      | High Acid/Pasteurized             | 8300-0920-100390 | 5.0 µm           | 100 mL      | High Acid/Azide                   | W500CB           |

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