



333 Route 46, Fairfield, New Jersey 07004, USA  
**Tel: 1-973-244-1125 Fax: 244-1365 torpac.com**  
*Special Capsules \* Capsule Machinery \* Soluble Containers*

## **Empty Gelatin Capsules – Storage Use USA For Optics, Electronics, Specimens & More**

- Optics:** Capsules are 100% Biodegradable, No Monomers, No Outgassing, Moisture Protection, Protect Coated & Polished Surfaces.
- Electronics:** Store inactive & active electronics, e.g. capacitors, resistors, inductors, diodes & transistors. Store highly charge-sensitive components mounted on discharge bases.
- Other Items:** Shells, Fossils, Insects, Devices and other products are suitable for storing in capsules.
- Customers** Cirtec Medical Devices, Fuzhou RD Photonics, LaserOptik, Mindrum, Omega Optical, Optrotech P. Ltd, Raytheon, Rolls Royce, SPI Supplies, Yale Peabody Museum.

### **Capsule Size Chart on Page 2**



- Sizes:** Large (Volume 3-110ml), Small (Size 000-5).
- Colors:** Clear or Special Order Custom Colors.
- Shipping:** Ex-Works Fairfield, New Jersey.
- Orders under \$75.00** Credit card only and a small order supplement applies.
- Payment Terms:** Net 30 Days for credit approved customers.
- Documentation:** Safety Data Sheet (SDS).
- Support:** Free samples and application's literature available.

| Capsule Size               | Interior Diameter |        | Interior Length |        | Packaging                            |
|----------------------------|-------------------|--------|-----------------|--------|--------------------------------------|
|                            | mm                | inches | mm              | inches |                                      |
| <b>Large Size Capsules</b> |                   |        |                 |        |                                      |
| 13                         | 14.17             | 0.57   | 29.57           | 1.18   | Available in Boxes of 100 capsules.  |
| 12                         | 14.18             | 0.57   | 40.08           | 1.60   |                                      |
| 12EL                       | 14.14             | 0.57   | 57.62           | 2.31   |                                      |
| 11                         | 19.32             | 0.77   | 47.02           | 1.88   |                                      |
| 10                         | 22.23             | 0.89   | 61.93           | 2.48   |                                      |
| 7                          | 22.30             | 0.89   | 77.50           | 3.10   |                                      |
| Su07                       | 22.32             | 0.89   | 88.02           | 3.52   |                                      |
| <b>Small Size Capsules</b> |                   |        |                 |        |                                      |
| 5                          | 4.47              | 0.18   | 10.83           | 0.43   | Available in Bags of 1,000 capsules. |
| 4                          | 4.87              | 0.20   | 13.72           | 0.55   |                                      |
| 3                          | 5.43              | 0.22   | 15.32           | 0.61   |                                      |
| 2                          | 5.93              | 0.24   | 17.30           | 0.69   |                                      |
| 1                          | 6.48              | 0.26   | 18.80           | 0.75   |                                      |
| 0                          | 7.17              | 0.29   | 20.99           | 0.84   |                                      |
| 00                         | 8.02              | 0.32   | 23.09           | 0.92   |                                      |
| 000                        | 9.39              | 0.38   | 27.54           | 1.10   |                                      |

**\*Quantity discounts available on the Small Size Capsules for orders over 3,000 capsules**

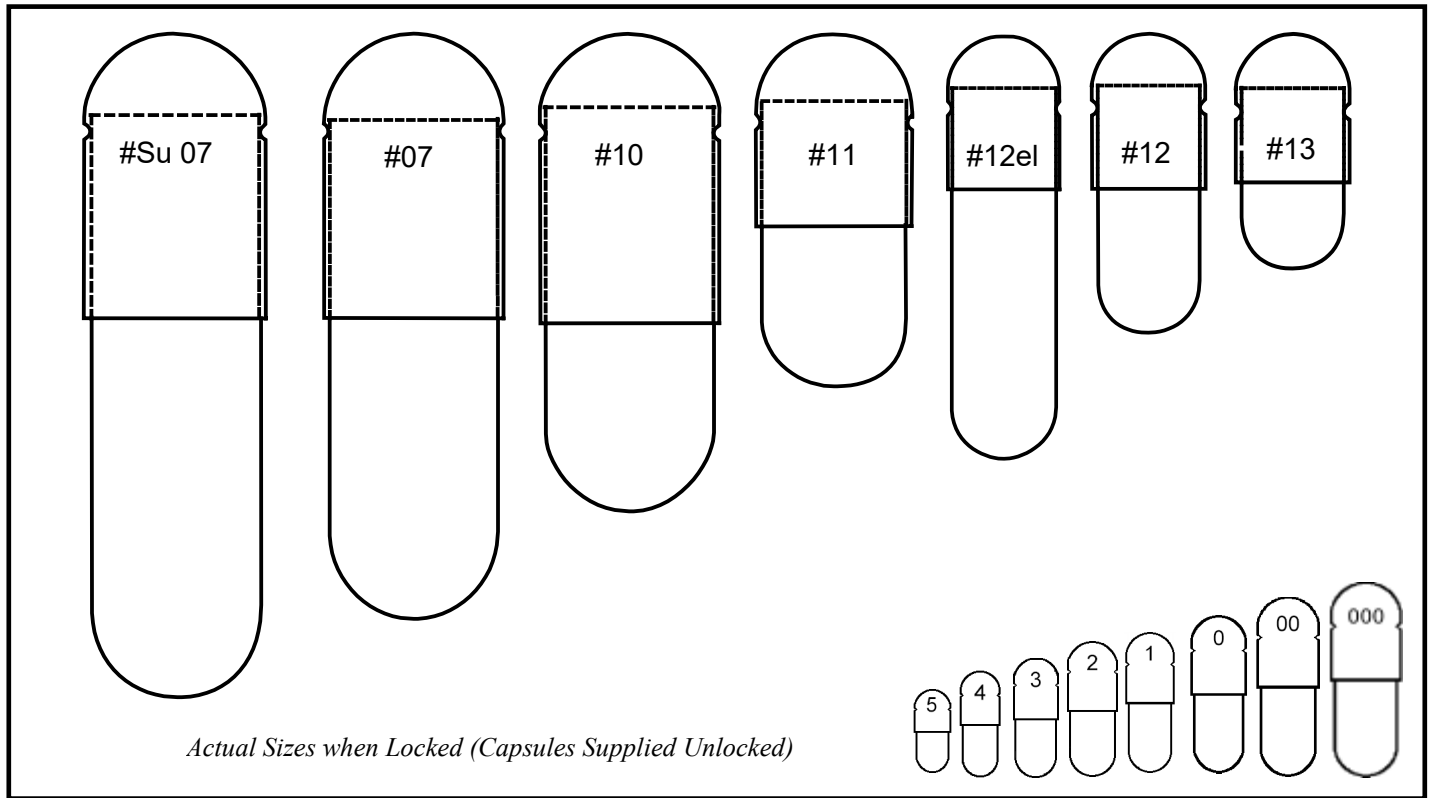
|  |
|--|
| Variety Pack 100 ea. Large Sizes (3-28ml) <sup>a</sup> |
| Variety Pack 100 ea. Small Sizes (000-5)               |

<sup>a</sup> Size 23100 (36ml), 35110 (90ml), 32150 (110ml) not included.

For more information and free samples contact [info37@torpac.com](mailto:info37@torpac.com)



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## Optics

Use For Lenses, Mirrors, Filters, Crystals, Prisms, Assemblies, Windows & Other Delicate Components  
Gelatin capsules, widely used in human pharmaceuticals, offer several advantages in the storage and shipping of delicate optical and electronic components.

### **Capsules Are Environmentally Friendly Packaging:**

Gelatin is 100% biodegradable and of natural origin. Unlike plastic, gelatin does not emit volatile monomers that can deposit on sensitive components during storage.

### **Capsules Provide a Barrier to Moisture:**

Gelatin absorbs moisture and has moisture barrier properties, thus minimizing condensation effects. When a component is sealed within a gelatin capsule, moisture will be preferentially absorbed by the gelatin.

### **Capsules Protect Flat Surfaces from Damage:**

The gelatin capsules' cylindrical shape and hemispherical domes ensure that the flat surfaces of disk-shaped components never touch the walls of the capsule. Mirrors, coated components, and lens surfaces are protected from contact during shipping. Capsules are a clear, strong and yet flexible container. They are transparent, thus allowing inspection through the capsules without the need to touch the component. Capsules are supplied in two pieces (cap and body) with a built in seal.

### **Capsules Are Faster than Optical Envelopes:**

A typical use is as a one-step packaging process for micro-optics. On an assembly line, a worker opens a gelatin capsule and places the open body of the capsule over a small optical filter. By pinching the body, which is flexible, the filter is picked up. The capsule body is then sealed using the capsule's cap. This method is much faster than wrapping the filter in tissue and then sealing an envelope.