



Technical Bulletin 1701

PTFE Coated Components

Polytetrafluoroethylene (PTFE) coatings are frequently used on components used on Dissolution Instruments. Many individual monographs specify this coating on Sinkers, Baskets, Paddles and Vessel interiors. The coating on the components can, over time, develop chips or scratches that can expose the substrate to corrosion and affect the results of the test. It is recommended that technicians handling these coated components are familiar with the following guidelines in order to prolong the service life of these components. Components with corrosion should be removed from service.

Handling

The PTFE Coatings are applied at the factory in order to maximize adhesion and durability. The coating, however, is susceptible to chipping and scratching if not handled gently. When being handled, these components should never be dropped on a surface or come in contact with another object in any way that would create a chip or scratch on the surface coating.

Cleaning

1. Never use abrasive materials or cleansers on PTFE coated components.
2. Thoroughly rinse, dry and inspect these components immediately after each use. Rinsing with DI water may be sufficient depending on the specific dissolution media used and the product being tested.
3. When a cleaning agent must be used, use only mild nonabrasive laboratory cleansers specifically formulated and recommended for use on stainless steel and polymers when present.

Suggested cleaning solutions:

Alconox – Alconox is a concentrated, anionic detergent that works well with PTFE components. It can be purchased through the Alconox web page www.alconox.com, or Phone (914) 948-4040

Micro-90 – Micro-90 is a concentrated cleaning solution. It can be purchased through Cole-Parmer, web page www.coleparmer.com, or Phone (800) 323-4340

4. Always rinse thoroughly with DI Water after cleaning with a cleaning solution.
5. After final rinse, thoroughly dry with a clean soft cloth.
6. Ultrasonic cleaners are not recommended for cleaning PTFE Coated components.
7. If heat is used for drying, do not exceed 90 deg C.