

Cleaning for new teflon (PFA/FEP/PTFE)

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Abstract

Protocol for cleaning new and old teflon products.

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Guidelines

All acid soaking is done HOT but not boiling on hotplate in clean lab (you may want to loosen nuts on jars to reduce pressure)

-50% acids should be recycled until you feel uncomfortable doing so, 1-3M can be (use your own intuition on how dirty it is)....weak acids are never recycled.

-Teflon cleaning jars AND still acid bottles from beth have been handled with vinyl gloves, be careful not to handle them with clean PE gloves and then handle other things.

Protocol

Step 1.

Soak in citrad (couple of hours).

Step 2.

Rinse thoroughly UPW.

Step 3.

immerse completely (in 1 L jars or bottles) in 50% v/v distilled HNO₃ for ≥ 48 hrs

Step 4.

Rinse thoroughly UPW.

Step 5.

Immerse completely (in 1 L jars or bottles) in 50% v/v distilled HCl for ≥ 48 hrs

Step 6.

Rinse thoroughly UPW.

Step 7.

Immerse completely (in 1 L jars or bottles) in 0.1% v/v distilled HNO₃ for ≥ 48 hrs

Step 8.

Rinse thoroughly UPW.

Step 9.

Immerse completely (in 1 L jars or bottles) in 1-3M v/v distilled HNO₃ for ≥ 48 hrs

Step 10.

Rinse thoroughly UPW.

Step 11.

Fill and store with 0.1% v/v distilled HNO₃

Step 12.

For already-cleaned teflon for Geotraces

1. Rinse with UPW.
2. Fill with 1-3M v/v distilled HNO₃ for 24-48hrs.
3. Rinse thoroughly with UPW.
4. Fill with 0.1% v/v seastar Nitric/distilled acid for as long as possible before use (minimum recommended a few hours).