



## Agilent 5100 ICP-OES Pre-optics Window Cleaning Instructions

There may be two pre-optics windows in your Agilent 5100 ICP-OES, one each for the axial and radial views (depending on the instrument configuration). These pre-optics windows are easily removed for cleaning or replacement if it is necessary. Please see the ICP Expert Help Maintenance section for instructions on how to remove your pre-optics windows or the Agilent 5100 ICP-OES eFam DVD that came with your software.

To access the ICP Expert Help, with the ICP Expert software open, press F1 on your keyboard or click Start > All Programs > Agilent > ICP Expert > ICP Expert Help.

### CAUTION

Do not use hydrofluoric acid to clean the pre-optics window.

### CAUTION

Always wear gloves when handling the pre-optics window. Avoid touching the faces of the window. Handle the pre-optics window by the edges only. Avoid wiping the faces of the window to prevent scratching the window.

### WARNING



#### Chemical hazard

The cleaning procedure may involve the use of corrosive or other hazardous chemicals. Many acids, including nitric acid, are corrosive and can cause severe burns when they come into contact with the skin. It is essential that appropriate protective clothing be worn at all times when handling all chemicals. If acid contacts the skin, wash off with copious amounts of water and seek medical attention immediately.

## Cleaning procedure

The window material is UV grade silica and can be cleaned with any solution that the contamination would be soluble in.

#### To clean the pre-optics window:

- 1 Soak the optics window in a dilute (5% v/v) laboratory detergent for 30 minutes.
- 2 Thoroughly rinse with de-ionized water.
- 3 If the contamination is not removed, soak the pre-optics window in dilute (5% v/v) nitric acid for 1 hour.
- 4 Thoroughly rinse with de-ionized water.
- 5 Rinse with clean, reagent grade isopropyl alcohol (2-propanol).



- 6 Dry the pre-optics window using one of the following options:
- Air dry at room temperature
  - Dry in a drying oven set between 40–80 °C (104–176 °F)
  - Use a clean, filtered compressed gas such as argon, nitrogen or compressed air.

**NOTE**

While compressed air is acceptable, argon or nitrogen will generally be cleaner and prevent any oily deposits that can come from compressed air.

If the window is permanently damaged, replace it. See the Agilent website at [www.agilent.com](http://www.agilent.com) for pre-optics window ordering information.

### Radial Pre-optics Window Protective Cover

If radial view is not required, fit the protective cover (see below) in place of the snout.



**WARNING**



**Hot surface**

The torch and torch compartment become extremely hot during instrument operation and remain hot for some time after the instrument has been switched off. Allow the torch and torch compartment to cool for at least five minutes before attempting to remove the torch and snout. Use heat-resistant gloves.

This information is subject to change without notice.



G8010-90012

Part Number: G8010-90012

Edition 04/15

Issue 1

Printed in Australia

© Agilent Technologies, Inc. 2015

Agilent Technologies Australia [M] Pty Ltd

679 Springvale Road

Mulgrave, VIC 3170, Australia