

Infragold[®] Reflectance Coating Care and Handling Guidelines

1. General Care

The diffuse gold coating used in Labsphere standards, targets, and integrating spheres must be treated with care. Wear clean, powder-free gloves when handling Infragold products. Protect the gold coating from corrosive chemicals and take care to avoid scratching or denting the surface.

2. Cleaning Instructions

If Infragold coating becomes soiled, it may be cleaned using the following procedure:

1. Spray the soiled area with a reagent-grade acetone
2. Rinse the area with a spray of deionized water
3. Dry the surface by blowing off with clean, dry nitrogen or clean, dry air.

3. Liquid Cooled Infragold Integrating Spheres

Liquid-cooled systems must be cooled with clean, deionized water in a closed-loop environment. Do not use tap water as coolant.

Care must be taken not to over-pressurize the liquid-cooled spheres.

If pressure at the inlet to the integrating sphere exceeds 10 psi, damage to the sphere will occur. Labsphere suggests using a pressure gauge in the coolant line.

For further information on care and handling of Infragold Reflectance Coating, please contact the Labsphere Technical Sales Department