

Applications

Applications Note

Insight on Color

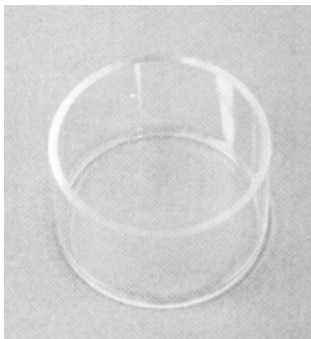
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Sample Cups

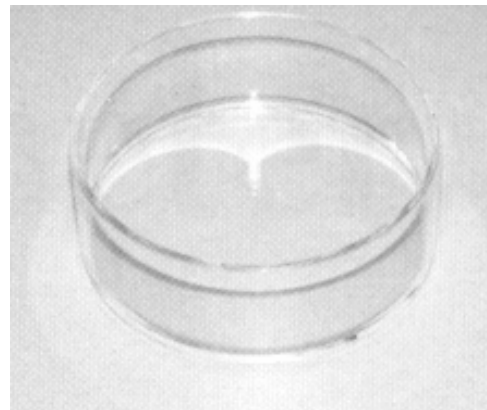
There are several types of sample cups available for measuring the reflectance of powders, granules, pellets, and semi-solids using HunterLab instruments. These types of cups are described below.

HunterLab Glass Cups

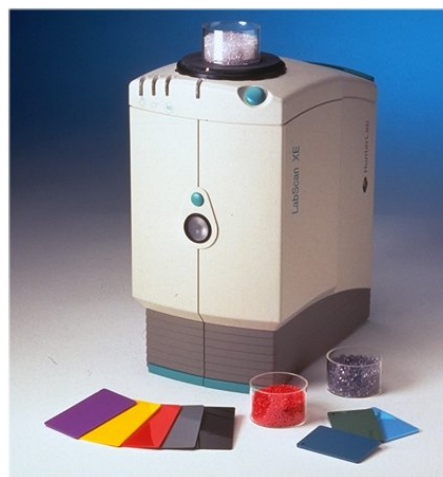
The best measurement performance is achieved when HunterLab fused-silica sample cups are used because they are custom manufactured to HunterLab's specifications. Each cup is optical quality glass and a two-piece construct that is first fused glass-to-glass then annealed. Solvents will not affect these cups, as the two components are fused together at the edges, not glued, and they can withstand a gradual increase in temperature up to 450°F (232°C), though beware that your instrument's port insert probably cannot! The dimensions, face quality, and flatness of the cups are monitored by HunterLab Quality Assurance. For critical measurements, these glass cups are recommended, since the sample will be viewed through the glass bottom of the cup.



The 2.5-inch glass sample cup



The 5-inch glass sample cup



Pertinent specifications for the HunterLab glass cups are as follows:

HunterLab Catalog Number	Diameter (inches)	Volume to Top (mL)	Minimum Volume with Ring and Disk (mL)
04-7209-00	2.5	92	25
04-7767-00	5.0	577	N/A

To purchase HunterLab sample cups and for current pricing information, contact:

Order Processing Department
 Hunter Associates Laboratory, Inc.
 Telephone: (703) 471-6870
 FAX: (703) 471-4237.

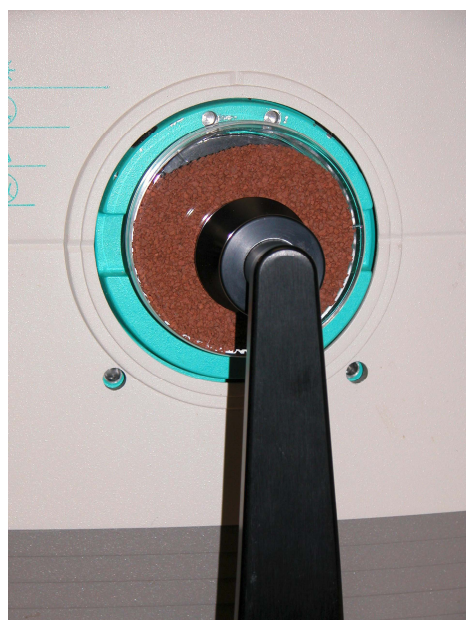
Disposable Cups

Disposable cups can be useful when measuring samples that are difficult to clean up or handle. HunterLab has examined several brands of polystyrene tissue culture dishes. These cups are made of clear polystyrene and have both bottoms and lids, so they can be used with instruments in both the port-up and the port-forward orientations. These cups are appropriate when the need for a disposable cup outweighs the compromise in performance. Just choose the appropriate diameter to completely cover

the sample port and an appropriate height to make the sample effectively opaque. Other brands are also acceptable as long as they are optically clear and completely cover the sample port.



Two different sizes of tissue culture dishes



Brand and Type	Fisher Scientific Catalog Number	Diameter x Height (mm)
Falcon 351008	08-757-100A	35 x 10
Falcon 351007	08-757-100B	60 x 15
Falcon 351029	08-757-100D	100 x 15
Fisher extra-depth	08-757-11	100 x 25
Falcon 351058	08-757-148	150 x 15
LabTek extra-depth	08-757-28	100 x 25

These disposable polystyrene cups are available from the following vendor:

Fisher Scientific

Telephone: (800) 766-7000

FAX: (800) 926-1166

www.fishersci.com.

For Additional Information Contact:

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