DIFFUSE REFLECTANCE PROBE AND STAND

Fiber probes are readily available from a number of sources, but many of the diffuse reflectance probes use a randomized bundle of fibers. This means that spectra acquired using two probes may be slightly different. We have solved this problem by developing a proprietary design that uses a reproducible fiber layout in the probe.

Our design ensures that, with the exception of six fibers at the edges, all the launch fibers are surrounded by collection fibers. This maximizes the amount of reflected light collected by the probe. The number and diameter of the launch fibers was designed to throughput match the interferometer, maximizing performance.

This probe can be used to measure powders and solids directly by diffuse reflectance.

This probe also comes with an adjustable probe stand and sample platform. The probe stand has a folding design for portability, and non-slip feet for stability. It's height and angle can be adjusted to suit application needs.

Specifications:

- Material
  - Probe body: 316 stainless steel
  - Probe sampling surface: fused silica and epoxy resin
- Dimensions
  - Outer diameter: 10 mm
  - Shaft: 15 cm; other lengths available on request
  - Fiber: 1.5 m; other lengths available on request
- Fiber Connection
  - SMA type 905 connectors

Order Information

Part Number	Description
MS-2000-1	Fiber optic probe for solids, 1.5 m fiber optic length, 15 cm probe shaft , 10 mm o.d.
MS-2001-1	Reference material (99% sintered Teflon standard, non-traceable)
MS-2002-1	Fiber optic probe stand
MS-2003-1	Sample platform

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