

## Raw Materials Verification:

### Incoming inspection using portable NIR - through the packaging!

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There is no longer a need to open bags, sacks, drums and other containers of incoming raw materials to remove a sample for identity testing in the laboratory. The portable LabSpec<sup>®</sup> VIS-NIR spectroscopy systems enable fast and efficient measurements “through-the-bag” to verify the identity of incoming raw materials.

Each measurement and verification typically takes just one second, appearing almost instantaneous. The LabSpec<sup>®</sup> instruments are specifically designed for portability and have an extremely rugged and compact design. They also feature completely independent battery operation, wireless connectivity, fibre-optic measuring probe and remote trigger device, making LabSpec<sup>®</sup> ideal for use in a raw material goods inwards environment.

In a World where regulatory bodies and more stringent quality measures continuously demand more testing of raw materials, the LabSpec<sup>®</sup> offers a simple, fast and convenient way to perform more raw materials testing. The inconvenience of breaking into packaging (possibly having already moved material into a dedicated sampling area), taking a sample, resealing the packaging, transporting the sample to a laboratory, sample preparation, analysis and reporting, can often be reduced dramatically or even completely removed.

LabSpec<sup>®</sup> VIS-NIR spectroscopy systems can work through the majority of packaging materials because they use a High Intensity Contact Probe with built-in light source and a unique post dispersive optical system with extremely high sensitivity detectors. Four basic models of LabSpec<sup>®</sup> are currently available. Each LabSpec<sup>®</sup> model can be specified with up to three spectrometers installed depending on wavelength requirements, maximum range being 350-2500nm. Typically a High Intensity Contact Probe is used for through-the-bag measurements, however an almost limitless range of fibre-optic measurement probes can also be utilised to cover a wide range of different applications; for example a dip probe for measurement of liquids or a bifurcated probe for measurement of very small sample areas.



Fig. 1 – ASD LabSpec<sup>®</sup>

To learn more about the ASD LabSpec<sup>®</sup> and other portable NIR spectroscopy solutions please visit [www.analytik.co.uk](http://www.analytik.co.uk) (UK and Ireland) or alternatively visit [www.asdi.com](http://www.asdi.com).