

Consumables for Handheld Spectrometers



Article Overview

Handheld spectrometer consumables include vials, caps, adapters, protective boots, and sample preparation accessories essential for accurate and safe analysis.

Common Consumables

Vials and Caps: Handheld spectrometers often require disposable or reusable vials and caps for liquid or powdered samples. These consumables ensure sample integrity and prevent contamination during analysis, particularly in Raman spectroscopy and XRF applications (Agilent, Rigaku, Cole-Parmer) . **Adapters and Holders:** Bottle adapters, periscope adapters, and universal sample holders allow the spectrometer to accommodate different container sizes and shapes, adjust laser focus, and maintain consistent sample positioning for accurate readings (Rigaku, Agilent) . **Protective Boots and Holsters:** Protective boots safeguard the handheld device from physical damage, while holsters provide hands-free transport and secure storage during field operations (Rigaku) . **Reference Standards and Solutions:** Spectroscopy standards, calibration kits, and reference solutions are consumables used to validate instrument performance, ensure measurement accuracy, and maintain compliance with quality control protocols (Cole-Parmer, SPECTRO) . **Sample Preparation Accessories:** Items such as trays, racks, tubing, and microsampling accessories facilitate safe handling, precise measurement, and efficient sample transfer, especially in high-throughput or hazardous environments (Thermo Fisher, SPECTRO) .

Specialized Consumables for Raman Spectroscopy

- Insight vial holders and caps for liquid scanning

Article Content

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Handheld spectrometers | Feature | Chemistry World

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