Which domestic brand of spectrometer should you choose

Overview

This section provides an overview for spectroscopic analyzer as well as their applications and principles.

Key Takeaways

For domestic spectrometer purchases, consider brands with local manufacturing, strong technical support, and proven reliability in your application, such as Thermo Fisher Scientific China and PerkinElmer China.Key Considerations for Selection
• Type of Spectrometer
• UV-VIS spectrometers are ideal for analyzing low-complexity liquid or gas samples and color measurement in food, beverages, and chemical solutions .

• Infrared (IR) spectrometers are suitable for non-invasive analysis of solids, surface materials, and chemical bond identification .

• Atomic absorption spectrometers are used for precise metal concentration analysis in pharmaceuticals, environmental testing, and mining .

• X-ray spectrometers are specialized for elemental analysis and material characterization .

• Technical Specifications
• Wavelength range, resolution, and sensitivity should match your analytical needs. For example, visible spectrum analysis requires 360–740 nm, while UV-VIS may extend from 190–1100 nm .

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• Consider software integration, automation capabilities, and compatibility with laboratory workflows .

• Domestic Brand Options
• Thermo Fisher Scientific China: Offers a wide range of analytical instruments, including UV-VIS, IR, and atomic absorption spectrometers. They have multiple factories and innovation centers in Shanghai, Beijing, Suzhou, and Guangzhou, providing strong local support, training, and application development .

• PerkinElmer China: Known for analytical instruments and laboratory solutions, with a strong presence in China and comprehensive service networks .

• Support and Service
• Domestic brands often provide faster technical support, local calibration, and training services.

• Check for demonstration labs or application centers to test instruments before purchase.

• Budget and Application Fit
• Evaluate whether the instrument meets your precision requirements without overpaying for features you may not use.

• For routine quality control, a UV-VIS spectrometer from a domestic brand may suffice, while research applications may require high-end IR or atomic absorption systems.

Recommendation

If you are looking for reliable domestic options, Thermo Fisher Scientific China and PerkinElmer China are strong choices due to their local manufacturing, extensive service networks, and broad product range. For specialized applications, consult with their local representatives to select the model that best fits your analytical needs and budget.

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