

**Feb. 2023**

**Specification for sulfur testing device**

Eapc Laboratory is interested in purchasing a device for sulfur testing.

1. Fast, simple and economical measurement of sulfur in crude oil and refinery Products (liquids only, including automotive, marine and aviation fuel).
2. Wide ranges test 0 - 150 ppm, 0 - 1000 ppm, 0.1 - 5.0 % m/m
3. Device will supply calibrated to test ranges as specified in section 2 including calibration and verification fluids.
4. Benchtop Energy Dispersive X-ray fluorescence (EDXRF) analyzer High-resolution Silicon-Drift Detector (SDD)
5. Compliance with sulfur testing methods and standards, especially ASTM D4294.
6. Compliance with ASTM D4294 repeatability standards
7. Standard error of calibration in a measurement range as low as 3 PPM
8. Leak and spillage prevention ability .
9. Safety prevents potential leakage on the critical X-ray components
10. Operating temperature: 10 °C to 35 °C
11. Password-protected user interface
12. Fail-safe warning lights
13. X-ray status indicator in the user interface
14. X-ray enable/disable key

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