



Uniphos Oil Spectrophotometer



UNIPHOS - Oil Spectrophotometer

Fats and oils obtain metal contents from soils where the plants are grown and after that from contact equipment during crushing, processing and storage. Many of the metal ions promote auto-oxidation that results in off-flavour and odor accompanied by color development. Studies have identified copper as the most harmful metal followed by Fe, Cu, P and Ni. Concentration of these ions varies from 0.1 to 2.0 ppm.

Sensor Specifications

Light Detector	Silicon Photodiode
Detector Life	50,000 hours
Operating Temperature	0 to 50°C (32 to 122 °F)

INSTRUMENT SPECIFICATIONS:

Measurement Principle	Absorption Method	
Measurement Range	Iron	0.2-2 ppm
	Nickel	0.2-2 ppm
	Copper	0.2-2 ppm
	Phosphorus	0.05-0.7 ppm
Resolution	+ 0.01 ppm of reading	
Accuracy	+5%	
Calibration Interval	6 months	
Physical Dimensions	Length	22.0 cm
	Width	17.0 cm
	Height	9.0 cm
	Weight	0.75 Kg
Power Requirements	Battery Operated - 7.4V Rechargeable Battery	
Accessories	Cuvettes (1pair), Charger, USB Cable, PP Vials -10 Nos	



SALIENT FEATURES:

- Portable with rechargeable Battery
- Comprehensive procedure for sample preparation
- Drastic reduction in reagents and sample in comparison to conventional lab method
- Quick Analysis of sample in <5 minute
- No use of hazardous chemicals



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