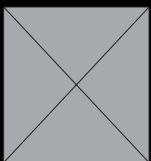




# HOSKIN

SCIENTIFIC

## XOS ELEMENTAL ANALYZERS



[hoskin.ca](http://hoskin.ca)

Supplying Testing & Monitoring Instruments Since 1946





For over seventy years, Hoskin Scientific has been a supplier of testing and monitoring instrumentation to the Canadian market. With offices in Vancouver, Oakville, and Montréal our customers are able to receive local sales and technical support in our three major departments.

Our Environmental Department provides solutions for monitoring and sampling biological and chemical parameters in the environment. Our team of environmental sales representatives and diverse product range guarantee that you will find the right products for your application. Specific areas include: water quality, water quantity, soil moisture, plant science, weather stations, indoor air quality, aquatic sampling, and oceanography.

Our Materials Testing Department offers testing equipment for soil, asphalt, petroleum, concrete and cement. Our qualified sales associates focus on providing a sophisticated range of testing equipment complying with the various test methods, ensuring that accurate and consistent test results are always obtained.

Our Instrumentation Department focuses on a wide range of products including optical camera systems, transducers and transmitters, data acquisitions and loggers, signal conditioners and indicators, automation sensors and measurement systems. We have technical sales associates that are trained in various areas and willing to help you with your instrumentation requirements.

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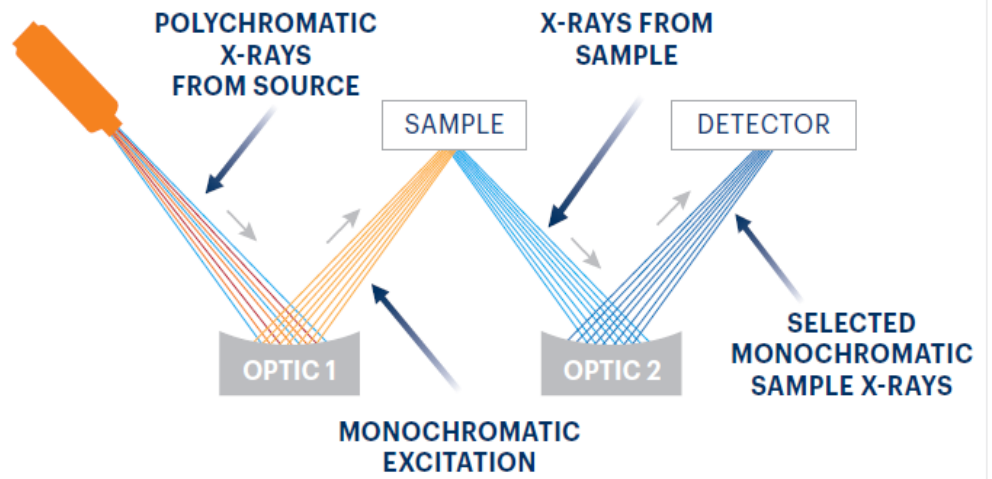
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# BENCHTOP AND ONLINE CHLORINE ANALYSIS

Monitoring chlorine for corrosion mitigation is critical during refining processes. Chlorine can poison expensive catalysts and lead to corrosion in overhead or reactor effluent systems. Clora® analyzers offer breakthrough analytical solutions for the determination of chlorine in liquid hydrocarbon samples such as aromatics, distillates, heavy fuels, and aqueous solutions

## ADVANCED ANALYSIS WITH MWDXRF

Monochromatic Wavelength Dispersive X-ray Fluorescence (MWDXRF) utilizes state-of-the-art focusing and monochromating optics to increase excitation intensity and dramatically improve signal-to-background ratio compared to traditional WDXRF instruments. This enables significantly improved detection limits, precision, and a reduced sensitivity to matrix effects. A monochromatic and focused primary beam excites the sample

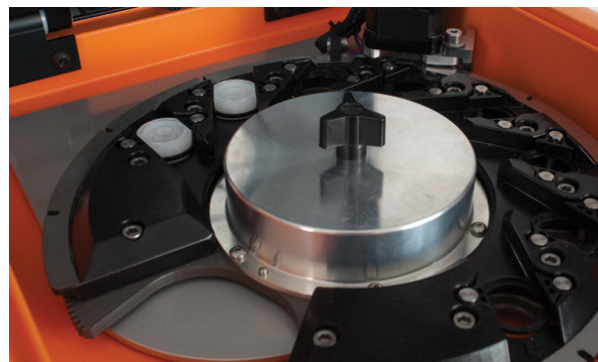


and secondary characteristic fluorescence X-rays are emitted from the sample. A second monochromating optic selects the chlorine characteristic X-rays and directs these X-rays to the detector. MWDXRF is a direct measurement technique and does not require consumable gasses or sample conversion delivering robust and low-maintenance analyzers with dramatically lower detection limits and faster response times.

## ELIMINATE PARTICLE SETTLING WITH ACCU-FLOW

Available on M-Series Clora

Accu-flow technology helps to minimize the effects of particulate settling, which is common when testing for chlorides in crude oil using XRF in the laboratory. Over a typical measurement cycle, the heavier particles can settle to the bottom of the sample cup and cause higher than normal results. Accu-flow pushes the sample through the system keeping the sample uniform, delivering a result that better reflects crude streams as they exist in the refinery. Accu-flow is available with Clora® benchtop analyzers.



## AUTOSAMPLER

Available on M-Series Clora

- 8 sample cell capacity
- Increases productivity
- Utilizes XOS Accucell sample cups

# ANALYZE TOTAL CHLORINE WITH UNPARALLELED PRECISION AND EASE OF USE

Clora® measures total chlorine in hydrocarbons such as aromatics, distillates, heavy fuels, crude oils, and water.

This state-of-the-art technology complies with ASTM D7536 and D4929C and delivers unparalleled accuracy and precision for petroleum and petrochemical applications where simple, quick, and reliable analysis is critical.\*

## APPLICATIONS

- Total chlorine analysis in petroleum products, biofuels, aromatics and other chemicals, and water
- For refineries, petrochemical and additive plants, pipeline terminals, and test laboratories

## FEATURES & BENEFITS

- LOD: 0.13 mg/kg (ppm) at 300s, 0.09 mg/kg (ppm) at 600s for hydrocarbons, 0.3 mg/kg (ppm) at 300s, 0.21 mg/kg (ppm) at 600s for aqueous samples\*\*
- Dynamic range: 0.13 mg/kg (ppm) to 4 wt%
- Manual sulfur correction to correct for high sulfur samples
- Easy to use:
  - Intuitive 10-inch touch screen
  - Just plug in and measure
  - Measurement time: 10-999 s
- Low and high range calibrations available:
  - Low range: 0.13 mg/kg (ppm) – 3000 mg/kg (ppm)
  - High range: 0.3 wt% - 4 wt%
- Low maintenance: no gasses, heating elements, columns, or quartz tubing
- Traditional XRF sample cups or XOS Accucells – decided at time of order
- Small footprint
- LIMS integration for data management and transfer
- Preset favorites capability to save data entry time and minimize mistakes on common samples
- Bar code reader autofills sample name to reduce data entry time
- Storage capacity for more than 50,000 measurement results
- Supports up to 30 calibration curves
- USB connectivity in front and back for connecting to printer, keyboard, mouse, memory stick
- Supports USB as well as network printers
- Large, easy-to-remove side panels for easy serviceability
- Advanced error reporting and diagnostics



THE R SERIES



ASTM D7536 & D4929C

\*All qualification herein are subject to user guide specifications.

\*\*Longer cycle time increases counts and lower LOD, but sample conditions over time must be considered.

# ANALYZE TOTAL CHLORINE WITH UNMATCHED ANALYTICAL PERFORMANCE

Easier to use than ever, Clora® 2XP analyzes total chlorine in liquid hydrocarbons such as aromatics, distillates, heavy fuels, and crude oils, as well as aqueous solutions, while automatically correcting for sulfur interference.

The enhanced precision and performance technology makes it the ideal choice for testing related to catalyst poisoning in reformers or for sites with fluid catalytic crackers and hydrocrackers monitoring very low chlorine levels. This state-of-the-art technology complies with ASTM D7536 and D4929C.\*

## APPLICATIONS

- Total chlorine analysis from aqueous solutions and aromatic products to heavy fuels and crudes
- For refineries, petrochemical and additive plants, pipeline terminals, and test laboratories

## FEATURES & BENEFITS

- LOD: 0.1 mg/kg (ppm) at 300s, 0.07 ppm at 600s in hydrocarbons\*\*
- Dynamic range: 0.1 mg/kg (ppm) – 2 wt%
- Automatic sulfur correction saves time and improves accuracy and precision on high sulfur samples
- Easy to use:
  - Intuitive 10-inch touch screen
  - Just plug in and measure
  - Measurement time: 10-999 s
  - Low and high range available:
    - Low range: 0.1 mg/kg (ppm) – 3000 mg/kg (ppm)
    - High range: 0.3 wt% – 2 wt%
- Low maintenance: no gasses, heating elements, columns, or quartz tubing
- Traditional 43 mm XRF sample cups
- Small footprint
- LIMS integration for data management and transfer
- Custom sample presets to save data entry time and minimize mistakes on common samples
- Bar code reader autofills sample name to reduce data entry time
- Storage capacity for more than 50,000 measurement results
- Supports up to 30 calibration curves
- USB connectivity in front and back for connecting to printer, keyboard, mouse, and memory stick
- Supports USB and network printers
- Large, easy-to-remove side panels for easy serviceability
- Advanced error reporting and diagnostics



ASTM D7536 & D4929C

\*All qualification herein are subject to user guide specifications.

\*\*Longer cycle time increases counts and lower LOD, but sample conditions over time must be considered.



# TWO CRITICAL MEASUREMENTS, ONE BUTTON, ZERO HASSLE

Sindie +Cl® is a two-in-one instrument enabling trace analysis of both sulfur and chlorine with one push of a button. It is the ideal solution to certify sulfur levels in finished products, assess chlorine for corrosion mitigation, and optimize process parameters.\*

## APPLICATIONS

- Total sulfur analysis from ultra low sulfur fuels to crudes
- Total chlorine analysis from aqueous solutions and aromatic products to heavy fuels, and crudes
- For use in refinery labs, pipeline terminals, additive plants and inspection laboratories

## FEATURES & BENEFITS

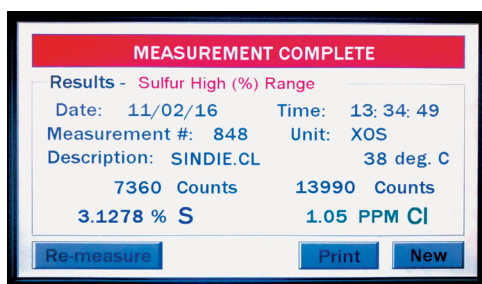
- Sulfur
  - LOD: 0.4 mg/kg (ppm) at 300 s, 0.28 mg/kg (ppm) at 600 s\*\*
  - Dynamic range: 0.4 mg/kg (ppm) to 5 wt%
- Chlorine
  - LOD: 0.3 mg/kg (ppm) at 300 s, 0.21 mg/kg (ppm) at 600 s
  - Dynamic range: 0.3 mg/kg (ppm) to 3000 ppm
- Extremely low maintenance: no gasses, heating elements, columns, or quartz tubing
- Automatic sulfur correction
- Easy to use
  - Intuitive touch screen
  - Just plug-in and measure
  - Measurement time: 30-900 s

## OPTIONS

- LIMS data output compatible software



ASTM D2622, D7039, D7536, D4929,  
ISO 20884 | SH/T 0842



## TWO CRITICAL MEASUREMENTS

Sindie +Cl performs trace analysis of both sulfur and chlorine with one push of a button. You can measure both elements in one sample, or measure each separately by simply inserting a new sample.

\*All qualification herein are subject to user guide specifications.

\*\*Longer cycle time increases counts and lower LOD, but sample conditions over time must be considered.



# ADVANCED WORKFLOW

Petra boasts an innovative autosampler design and advanced software features for a more flexible and efficient workflow.

## PRESET YOUR MEASUREMENT CONFIGURATIONS

Customizable measurement configurations allow you to select the correct calibration curve, measurement time, and sample matrix for a foolproof process.

## ELIMINATE DATA ERRORS

Eliminate data errors with X-ID sample cups. The sample cup is scanned on the measurement configuration screen, and again when it reaches the measurement chamber to ensure the correct sample name and measurement parameters are paired with results, every time.

## REDUCE IDLE TIME WITH CONTINUOUS SAMPLE LOAD

The 8-position sample slide offers continuous loading, allowing you to add urgent samples to the queue even during analysis.



The Autosampler is an optional add-on feature, and can be added to an existing Petra 4294 or Petra MAX analyzer. QR/barcode scanner included with purchase. X-ID sample cups are not mandatory - standard XRF cups may be used with the analyzer.

# ADVANCED PRECISION

Petra MAX delivers ASTM D4294 and ISO 8754 sulfur analysis with an LOD as low as 5.7 ppm. In addition, Petra MAX measures 12 other elements, including nickel and vanadium for ASTM D8252 compliance. Petra 4294 delivers precise sulfur analysis with an LOD as low as 2.6 ppm.



## PETRA MAX APPLICATIONS

- Hydrocarbons
- Water
- Catalyst Powder
- Carbon Powder

The blending of crude oils from different sources has become more commonplace within the industry to meet specifications for the classification of sweet crude oil. The introduction of new crudes brings new challenges, like higher concentrations of metals such as nickel (Ni), vanadium (V), and iron (Fe). Ni and V are known to rapidly deactivate process catalysts in the catalytic cracker (FCC) and hydrotreaters. In response, many refiners have incorporated Ni and V analysis into their routine crude assay, and pipelines have set specifications for Ni and V in their common stream sweet crude. Fe is introduced into crude oil from corrosion byproducts during transportation and can lead to pump and exchanger fouling, and off-specification coke. The data in Table 1 represents ten separate aliquots of crude oil that were analyzed for 300 seconds by Petra MAX to demonstrate the advanced precision achievable with HDXRF® technology.

**Dynamic Range, LOD & Applications**

<b>Petra MAX</b>	<b>Dynamic Range</b>	Sulfur 5.7 ppm – 10 wt%					
	<b>Limit of Detection (ppm @ 600 s) in hydrocarbons</b>	Sulfur 5.7 ppm					
		P	Cl	K	Ca	V	Cr
		17	3	0.7	0.4	0.1	0.09
		Mn	Fe	Co	Ni	Cu	Zn
		0.07	0.07	0.07	0.04	0.1	0.1
<b>Applications</b>	Hydrocarbons, water, and catalysts						
<b>Method Compliance</b>	ASTM D8252, D4294, ISO 8754, IP 336, & UOP 979						
<b>Petra 4294</b>	<b>Dynamic Range</b>	Sulfur 2.6 ppm – 10 wt%					
	<b>Limit of Detection (ppm @ 600 s)</b>	Sulfur 2.6 ppm					
	<b>Applications</b>	Hydrocarbons					
	<b>Method Compliance</b>	ASTM D4294, ISO 8754, and IP 336					

# SINDIE R2

## ANALYZE SULFUR WITH PRECISION AND FLEXIBILITY

Easier to use than ever, Sindie R2 provides the best value and combination of detection limits, measurement speed, ease of use and reliability and is the ideal sulfur analytical solution to help you stay in compliance with ASTM D2622, ASTM D7039, ISO 20884, and EN 16997 methods, enabling complete flexibility for your analytical needs. \*

### APPLICATIONS

- Petroleum Products (diesel, jet, kerosene, other distillate oil, naphtha, residual oil, lubricating base oil, hydraulic oil, crude oil, gasoline, gasoline-ethanol blend, coal and petroleum cokes).
- First and second-generation biofuels (biodiesel, ethanol, renewable diesel, HVO, SAF).
- Edible oils and fats (UCO, tallow, palm oil, corn oil, soybean oil, etc.)
- Chemicals (toluene, xylene, methanol, benzene, etc).
- Water

### FEATURES & BENEFITS

- LOD: 0.4 mg/kg (ppm) at 300s, 0.28 mg/kg (ppm) at 600s\*\*
- Range: 0.4mg/kg (ppm) to 10 wt%
- Easy to use  
Intuitive 10-inch touch screen  
Just plug in and measure  
Measurement time: 10-999 s
- Low and high range available:  
Low range: 0.4 mg/kg (ppm) – 3000 mg/kg (ppm)  
High range: 0.3 wt% - 10 wt%
- Low maintenance: no gasses, heating elements, columns, or quartz tubing
- Traditional 43 mm XRF sample cups or XOS Accucells –decided at time of order
- Small footprint
- LIMS integration for data management and transfer
- Custom sample presets to save data entry time and minimize mistakes on common samples
- Bar code reader autofills sample name to reduce data entry time
- Storage capacity for more than 50,000 measurement results
- Supports up to 30 calibration curves
- USB connectivity in front and back for connecting to printer, keyboard, mouse, and memory stick
- Supports USB and network printers
- Large, easy-to-remove side panels for easy serviceability
- Advanced error reporting and diagnostics



# Analyze Sulfur with Unparalleled Precision

Easier to use than ever, Sindie R3 is our most advanced sulfur analytical solution for compliance with ASTM D2622, ASTM D7039, ISO 20884, and EN 16997 methods, enabling complete flexibility for your analytical needs. Advanced R3 optics, provide extremely low limits of detection, allowing for cycle time flexibility to save up to hours per day in testing time.\*

## APPLICATIONS

- Petroleum Products (diesel, jet, kerosene, other distillate oil, naphtha, residual oil, lubricating base oil, hydraulic oil, crude oil, gasoline, gasoline-ethanol blend, coal and petroleum cokes).
- First and second-generation biofuels (biodiesel, ethanol, renewable diesel, HVO, SAF).
- (edible) oils and fats (UCO, Tallow, palm oil, corn oil, soybean oil etc.)
- Chemicals (toluene, xylene, methanol, benzene etc).
- Water

## FEATURES AND BENEFITS

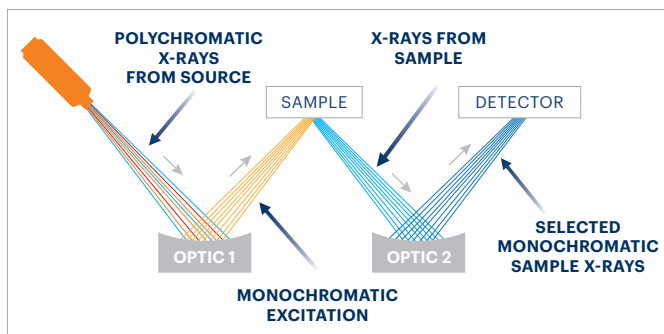
- **LOD:** 0.18 mg/kg (ppm) at 300s, 0.15mg/kg (ppm) at 600s\*\*
- **Dynamic Range:** 0.18 mg/kg (ppm) - 10 wt%
- Advanced R3 optics allow for optional lower background measurement time
- Easy to use
  - Intuitive 10-inch touch screen
  - Just plug in and measure
  - **Measurement time:** 10-999 s
- Low and high range calibrations available:
  - **Low range:** 0.18 mg/kg (ppm) – 3000 mg/kg (ppm)
  - **High range:** 0.3 wt% - 10 wt%
- Low maintenance: no gasses, heating elements, columns, or quartz tubing
- Traditional 43 mm XRF sample cups or XOS Accucells – decided at time of order
- Small footprint
- LIMS integration for data management and transfer
- Custom sample presets to save data entry time and minimize mistakes on common samples
- Bar code reader autofills sample name to reduce data entry time
- Storage capacity for more than 50,000 measurement results
- Supports up to 30 calibration curves
- USB connectivity in front and back for connecting to printer, keyboard, mouse, and memory stick
- Supports USB and network printers
- Large, easy-to-remove side panels for easy serviceability
- Advanced error reporting and diagnostics

16 32.06  
**Sindie** R3  
Sulfur Analyzer

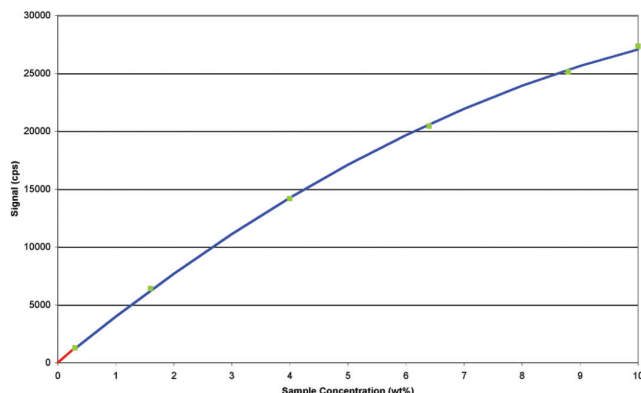


## TRUSTED PRECISION

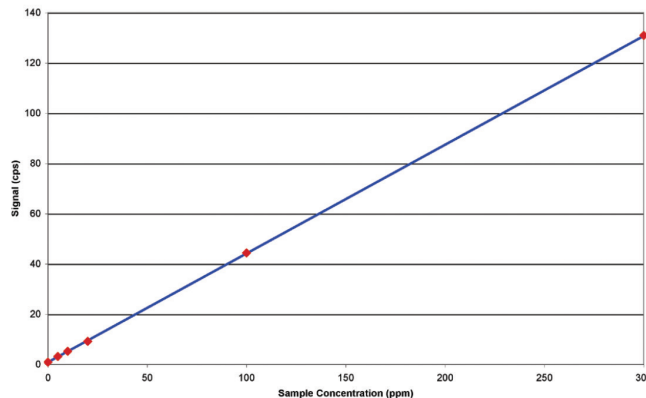
Monochromatic Wavelength Dispersive X-ray Fluorescence (MWDXRF®) utilizes state-of-the-art focusing and monochromating optics to increase excitation intensity and dramatically improve signal-to-background over high-power traditional WDXRF instruments. This enables significantly improved detection limits and precision, and a reduced sensitivity to matrix effects. A monochromatic and focused primary beam excites the sample, and secondary characteristic fluorescence X-rays are emitted from the sample. A second monochromating optic selects the sulfur characteristic X-rays and directs these X-rays to the detector. MWDXRF is a direct measurement technique and does not require consumable gasses or sample conversion.



### HIGH RANGE CALIBRATION



### LOW RANGE CALIBRATION



## PRODUCT SPECIFICATIONS

<b>Model</b>	Sindie R3
<b>Test Method</b>	ASTM D7039, ASTM D2622, ISO 20884 and EN 16997
<b>Dimensions</b>	42 cm (h) x 40 cm (w) x 54 cm (d) 16.5 in (h) x 15.8 in (w) x 21 in (d)
<b>Power</b>	100-120 VAC, 47-63 HZ at 5.0 Amps/ 200-240 VAC, 47-63 HZ at 2.5 Amps
<b>Minimum Sample Cup Volume</b>	Traditional - 5 mL, Accucells - 1mL
<b>Ambient Temperature Requirements</b>	5-40°C (40-104°F)
<b>Optical Path</b>	Vacuum
<b>Excitation Source</b>	75 W air-cooled

Examples of High and Low Range Calibration Curves on Sindie R3

\*All qualification herein are subject to user guide specifications. If you have further questions, reach out to our team of experts at [info@xos.com](mailto:info@xos.com).

\*\*Longer cycle time increases counts and lower LOD, but sample conditions over time must be considered. For further inquiries, please contact us at [info@xos.com](mailto:info@xos.com).

Sindie uses a weighted least squares regression in low range which is extremely linear and easy to set up. Typical correlation (R value) is expected to be on the order of 0.999 or better.

### PRECISION

Typical repeatability (r) and reproducibility (R) values in diesel fuel, at 95% confidence. 300 s measurement time.

Sulfur Concentration (ppm)	r	R
2	0.3	0.7
5	0.5	0/8
8	0.6	1.0
15	0.8	1.4
100	2	4
500	5	10





### Mylar Accu-cells - Bag of 100

Accu-cells provide easy and hassle-free sample preparation. Used with Sindie benchtop and portable analyzers. This product can be used with the following analyzers:

- Sindie® 7039 Gen3 with Accu-cell (#400905-01m)
- Sindie® 7039 Gen3 Extended Range with Accu-cell (#400905-01mXR)
- Sindie® 7039 Gen3 with Autosampler (#401147-01m)
- Sindie® 7039 Gen3 Extended Range with Autosampler (#401147-01mXR)
- Sindie® On-The-Go (#401368-03)
- Sindie® 2622 Gen2 with Autosampler - Accu-cell (helium) (#402168-01m)
- Sindie® 2622 Gen2 with Autosampler - Accu-cell (vacuum) (#402169-01m)
- Sindie® 2622 Gen3 with Accu-cell (helium) (#402291-01m),
- Sindie® 2622 Gen3 with Accu-cell (vacuum) (#402291-02m)



### Etnom® Accucells - Bag of 100

Accucells provide easy and hassle-free sample preparation. Used with Clora benchtop analyzers. This product can be used with the following analyzers:

- Clora® Accu-Flow (#400641-01mFT)
- Clora® Extended Range (Catalysts) with Accu-Flow (#400641-01mXRCFT)
- Clora® Extended Range with Accu-Flow (#400641-01mXRFT)
- Clora® with Autosampler (#401430-01m)
- Clora® Extended Range with Autosampler (#401430-01mXR)



### Prolene Accucells - Bag of 100

Accucells provide easy and hassle-free sample preparation. Used with Maxine and Phoebe benchtop analyzers. This product can be used with the following analyzers:

- HD Maxine® (#401754-02m)
- HD Maxine® with Accu-Flow (#401754-02mFT)
- Phoebe® with Accu-Flow (#401852-01mFT)



### High-Viscosity Mylar Accucells - Bag of 100

Open-top sample cups for viscous samples and accu-flow. Used with Sindie benchtop and portable analyzers. This product can be used with the following analyzers:

- Sindie® 7039 Gen3 with Accu-cell (#400905-01m)
- Sindie® 7039 Gen3 Extended Range with Accu-cell (#400905-01mXR)
- Sindie® 7039 Gen3 with Autosampler (#401147-01m)
- Sindie® 7039 Gen3 Extended Range with Autosampler (#401147-01mXR)
- Sindie® On-The-Go (#401368-03)
- Sindie® 2622 Gen2 with Autosampler - Accu-cell (helium) (#402168-01m)
- Sindie® 2622 Gen2 with Autosampler - Accu-cell (vacuum) (#402169-01m)
- Sindie® 2622 Gen3 with Accu-cell (helium) (#402291-01m),
- Sindie® 2622 Gen3 with Accu-cell (vacuum) (#402291-02m)





### High-Viscosity Etnom Accucells - Bag of 100

Open-top sample cups for viscous samples and accu-flow. Used with Clora benchtop analyzers. This product can be used with the following analyzers:

- Clora® Accu-Flow (#400641-01mFT)
- Clora® Extended Range (Catalysts) with Accu-Flow (#400641-01mXRCFT)
- Clora® Extended Range with Accu-Flow (#400641-01mXRFT)
- Clora® with Autosampler (#401430-01m)
- Clora® Extended Range with Autosampler (#401430-01mXR)



### High-Viscosity Prolene Accucells - Bag of 100

Open-top sample cups for viscous samples and accu-flow. Used with Maxine benchtop analyzers. This product can be used with the following analyzers:

- HD Maxine® (#401754-02m)
- HD Maxine® with Accu-Flow (#401754-02mFT)
- Phoebe® with Accu-Flow (#401852-01mFT)



### X-ID Sample Cups - Bag of 100

X-ID Sample Cups include a unique identifier tracking code for sample tracking with Petra Autosampler analyzers. This product can be used with any XRF instrument that has a traditional XRF sample cup basket. Sample tracking capabilities only available in Petra Series.

SpectroSulfur(R) XRF Sample Cups  
 Chemplex(R) CAT. NO. 1850  
 Made in U.S.

Outside Diameter: 1.69" (42.9mm)  
 Max O.D.: 1.87" (47.5mm)  
 Aperture: 1.41" (35.8mm)  
 Vol: 13  
 Height: 0.77" (19.6mm)

(R) SpectroSulfur and Chemplex are registered trademarks of Chemplex Industries, Inc.



### **Standard XRF Sample Cups - Bag of 100**

Standard XRF Sample Cups and films are the basic necessities for containing and analyzing samples. Used with Sindie, Clora, Signal, Maxine, and Phoebe benchtop analyzers.

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### **Sample stand for Accu-cells cups - 8 single cups**

Place Accucell sample cups in sample stand while filling to protect sample film. (8-positions).

---



### **Sample stand for Standard XRF cups - single cup**

Place filled Standard XRF sample cup on sample stand while venting cup to protect sample film.

---



### **Mylar Sample Film - Box of 100**

Thin film can be used with sample cups as a sample support window. Simply attach a thin film to one end of a new sample cup. Used with Sindie benchtops and portable analyzers.

**Etnom® Sample Film - Box of 100**

Thin film can be used with sample cups as a sample support window. Simply attach a thin film to one end of a new sample cup. Used with Clora benchtop analyzers

**Prolene Sample Film - Box of 100**

Thin film can be used with sample cups as a sample support window. Simply attach a thin film to one end of a new sample cup. Used with Clora, Signal, Maxine, and Phoebe benchtop analyzers

**Polypropylene Sample Film - Box of 100**

Thin film can be used with sample cups as a sample support window. Simply attach a thin film to one end of a new sample cup. Used with Rocksand analyzer.

## CALIBRATION STANDARDS



<b>Calibration Standard; Cl in Diesel Matrix 0ppm (500mL)</b> Series:204138-01	<b>Calibration; S &amp; Cl in Mineral Oil, 0-500 ppm (100 mL)</b> Series:204454-01
<b>Calibration Standard; Cl in Diesel Matrix 10ppm (500mL)</b> Series:204140-01	<b>Calibration; S in Diesel, 0-500 ppm (10 mL)</b> Series:201760-02
<b>Calibration Standard; Cl in Diesel Matrix 1ppm (500mL)</b> Series:204139-01	<b>Calibration; S in Diesel, 0.3-10% (10 mL)</b> Series:201720-01
<b>Calibration Standard; Cl in Diesel Matrix 50ppm (500mL)</b> Series:204141-01	<b>Calibration; S in Mineral Oil, 0-3000 ppm (10 mL)</b> Series:202915-01
<b>Calibration; Cl in Crude, 0-500 ppm (100 mL)</b> Series:202358-01	<b>Calibration; S in Mineral Oil, 0-5% (10 mL)</b> Series:207154-34
<b>Calibration; Cl in Mineral Oil, 0-10 ppm (10 mL)</b> Series:200766-08	<b>Calibration; S in Mineral Oil, 0-500 ppm (10 mL)</b> Series:201760-01
<b>Calibration; Cl in Mineral Oil, 0-50 ppm (10 mL)</b> Series:200766-06	<b>Calibration; S in Mineral Oil, 0.3-10% (100 mL)</b> Series:202233-01
<b>Calibration; Cl in Mineral Oil, 0-500 ppm (10 mL)</b> Series:200766-02	<b>Calibration; S in Mineral Oil, 0.3-4% (100 mL)</b> Series:201720-03
<b>Calibration; Cl in Mineral Oil, 0.3-4% (10 mL)</b> Series:200766-04	<b>Calibration; S in Mineral Oil, 10 - 3000 ug/g (10mL)</b> Series:207154-15
<b>Calibration; Cl in Xylene, 0-500 ppm (10 mL)</b> Series:200766-01	<b>Calibration; S in Mineral Oil, 3000 - 60000 ug/g (10mL)</b> Series:207154-16
<b>Calibration; Cl in Xylene, 0.3-4% 100 mL)</b> Series:200766-03	<b>Calibration; Si in Ethanol, 0-250 ppm (10 mL)</b> Series:202931-01
<b>Calibration; P in Mineral Oil, 0-500 µg/g (10 mL)</b> Series:203608-01	<b>Calibration; Si in Isooctane, 0-250 ppm (10 mL)</b> Series:202928-01
<b>Calibration; Petra MAX Multi-Element in Mineral Oil, 0-500 ppm (10 mL)</b>	<b>Calibration; Sindie Online. S in Diesel. 0-500 ppm</b>



Hoskin Scientific Limited has been supplying testing and monitoring instruments since 1946. Although our range is broad, we focus on three major markets including:

Geotechnical & Materials Testing  
Environmental Monitoring  
Test & Measurement Instrumentation

Hoskin Scientific operates out of four offices within Canada:

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