

Twice the Precision, Twice the Performance

Clora® 2XP is designed for use with liquid hydrocarbons such as aromatics, distillates, heavy fuels and crude oils, as well as aqueous solutions. The enhanced precision of Clora 2XP is ideal for testing related to catalyst poisoning in reformers or for sites with fluid catalytic crackers and hydrocrackers monitoring very low levels of chlorine.

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 and Benefits

- LOD: 0.07 ppm in 600 s
- Dynamic Range: 0.07 ppm - 2 wt%
- Automatic sulfur correction
- Fits on any lab bench
- Easy to use
 - Intuitive touch screen
 - Just plug-in and measure
 - Measurement time: 30-900 s
- Extremely low maintenance: no conversion gasses, heating elements, columns, acids, or quartz tubing
- Replaceable air-cooled X-ray tube

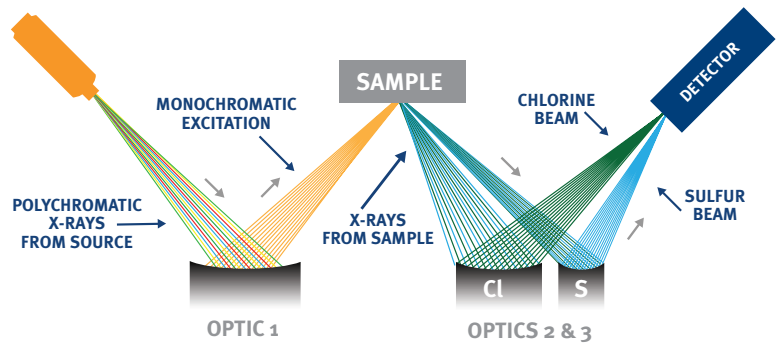
Options

- LIMS data output compatible software



TRUSTED PRECISION

Clora 2XP is powered by Monochromatic Wavelength Dispersive X-ray Fluorescence (MWDXRF®): an elemental analysis technique offering significantly enhanced detection performance over traditional XRF technology. Using the industry's most advanced optics, doubly curved crystals, Clora 2XP achieves a high signal-to-background ratio and delivers very precise measurements of low chlorine.



Total Chlorine Analysis			
	Gasoline (600 s)	Vacuum Gas Oil (300 s)	Mineral Oil Standard (300 s)
All values in ppm	0.29	1.41	0.30
	0.31	1.42	0.33
	0.30	1.44	0.31
	0.33	1.36	0.31
	0.36	1.43	0.30
	0.40	1.35	0.27
	0.36	1.44	0.23
	0.32	1.47	0.34
	0.31	1.39	0.32
Average	0.327	1.417	0.305
Standard Deviation	0.032	0.040	0.035

Precision

Typical repeatability (r) and reproducibility (R) values, at 95% confidence. Measurement time: 600 s xylene, 300 s crude oil and water.

Xylene			Crude Oil			Water	
Chlorine (ppm)	r	R	Chlorine (ppm)	r	R	r	R
0.2	0.10	0.19	5	0.4	0.7	0.5	1.0
0.5	0.11	0.22	10	0.6	1.2	0.7	1.4
1	0.14	0.27	50	1.2	2.0	1.5	2.5
5	0.25	0.50					

Product Specifications

Model	Clora 2XP
Test Method	ASTM D7536 and D4929
Dimensions	37 cm (w) x 50 cm (d) x 34 cm (h)
Power	100-120 VAC, 47-63 HZ at 6.0 Amps/200-240 VAC, 47-63 HZ at 6.0 Amps
Sample Cup Volume	10 ml
Ambient Temperature Requirements	5-40° C (40-104° F)
Dynamic Range	0.07 ppm - 2 wt%
Measurement	30-900 s
Calibration	8 calibration curves. Automatic and manual calibration functionality



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