

TOTAL CHLORINE & PCBs SCREENING KITS

TCPs kits provide fast and smart field tests to carry out a preliminary determination of the content of total chlorine in used and unused mineral oils. The organic chlorinated compounds (as PCBs) are converted into inorganic chlorine through a sodium-based reaction, and then quantified through potentiometry or chemical titration.

Reagents are pre-dosed and, when necessary, sealed under inert atmosphere. Results above national limits must be confirmed by accredited laboratories on the basis of chemical analyses performed in accordance with technical standards such as IEC-EN 61619. A certain percentage of "false positive results" should be expected due to the possibility of interferences.

TCPs POTENTIOMETRIC KITS

TEST KIT	TCPs-POTENTIOMETRIC	TCPs-POTENTIOMETRIC-LOW CONC
Method	Electrochemical determination	Electrochemical determination
Measurement range	2 - 2000 ppm as PCBs eq	0,5 - 10 ppm as PCBs eq
Matrix	Mineral oil	Mineral oil
Average Analysis Time	10 minutes	10 minutes
Hardware	TCPs instrument + ISE electrode, filling sol (1 bottle for 100 samples), chloride standards 10, 100, 1000 ppm (one of each for 50 samples)	TCPs instrument + ISE electrode, filling sol (1 bottle for 100 samples), chloride standards 10, 100 ppm (one of each for 50 samples)
Chemicals	Sodium biphenyl, PES (extracting sol.)	Sodium biphenyl, PES-LC (extracting sol. for low conc)
Consumables	5 ml syringe, 20 ml syringe + 2 filters	10 ml syringe, 20 ml syringe + 2 filters
Packaging	50 kits	50 kits.



TCPs COLORIMETRIC KITS

TEST KIT	TCPs-COLORIMETRIC	TCPsCOLOR50
Method	Argentometric back titration 14- 700 ppm as PCBs Aroclor 1242	Argentometric back titration
Measurement range	11- 547 ppm as PCBs Aroclor 1254 10- 500 ppm as PCBs Aroclor 1260	Above or below 50 ppm PCB eq
Min increment	10 ppm	50 ppm
Matrix	Mineral oil	Mineral oil
Average Analysis Time	10 minutes	7 minutes
Hardware	Micro dispenser (disp. vol. 10 µl)	Not required
Chemicals	Sodium biphenyl, extract. sol., silver nitrate, ferric sulfate, potassium thiocyanate	Sodium biphenyl, extract. sol., silver nitrate, ferric sulfate, potassium thiocyanate
Consumables	5 ml syringe, 10 ml syringe+ filter, 20 ml syringe+ filter, pipette	5 ml syringe, 10 ml syringe+ filter, 20 ml syringe+ filter, pipette
Packaging	50 kits	50 kits



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