

Method Z640 - Free chlorine Cl2

Specification

Description: Test for determining the content of free chlorine in fresh water

Range: 0,1 - 5 mg/l Resolution: 0,01 mg/l Wavelength: 470 nm Page | 1

Reagent set

Product Code Description

Set of reagents for method Z640,

Free chlorine Cl₂ fresh water (reagents for approx. 50 tests)

List of components

- ✓ blister with tablets DPD No. 1 5 pcs.
- ✓ crusher

Performing the measurement

Select the Z640 Free chlorine Cl2 method (Methods → Select method → Z640 Free chlorine Cl2).
 How to select the method, see 8.1 Choosing method.

NOTE:

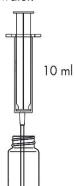
It is recommended to use the GUIDE system by pressing the context button **GUIDE** on the photometer. It will provide you with step-by step basic instruction how to perform measurement and a timer with beeper to count down reaction time. To enable this function press the button **GUIDE**.

2. Rinse the vial and the syringe three times with the tested water.

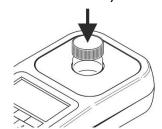
Take exactly 10 ml of the tested water with the syringe and pour into the vial.

NOTE:

Make sure no air bubbles are present in the syringe.
Trapped air bubbles can affect accuracy of the measurement.



3. Insert the vial into the round vial holder and press the ZERO key. The display will show "-0.0-", which means the device is ready for measurement.



24 09 22		12:35		
Cl2	Z640 F	ree chlorin		
	tag 1			
Measuring				
ZERO		GUIDE		

24 09 22		12:35				
Cl2	Z640 Free chlorin					
	tag 1					
0.0/1						
-0.0- mg/l						
ZERO	MEAS	GUIDE				

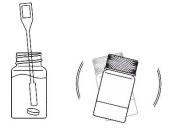


4. Add one DPD No. 1 tablet into the vial with water.



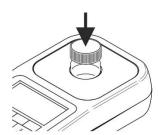
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- 5. Crush the tablet in the vial with the crusher, recap the vial and shake until the tablete has dissolved.
- 6. Wait 2 minutes before measuring.





7. Insert the vial into the round vial holder and press the MEAS key to take a measurement. The result - the concentration of free chlorine - is displayed in mg/l (ppm).



24 09 22		12:38		
Cl2	Z640 F	ree chlorin		
	tag 1			
Measuring				
ZERO	MEAS	GUIDE		

24 09 22		12:38			
Cl ₂	Z640 F	ree chl	orin		
	tag 1				
0.12 mg/l					
ZERO	MEAS	GUIDE	REC		

Potential interferences

the presence of:

bromine (Br), iodine (I), ozone (O₃), oxidised form of chromium (Cr) and manganese (Mn)

may interfere with the measurements

alkalinity above 14 °d may cause falsely low readings