

Oxygen active T

M290

0.1 - 10 mg/L O<sub>2</sub>

DPD

# Instrument specific information

The test can be performed on the following devices. In addition, the required cuvette and the absorption range of the photometer are indicated.

Instrument Type	Cuvette	λ	Measuring Range
MD 600, MD 610, MD 640, MultiDirect, PM 620, PM 630	ø 24 mm	530 nm	0.1 - 10 mg/L O <sub>2</sub>
SpectroDirect, XD 7000, XD 7500	ø 24 mm	510 nm	0.1 - 10 mg/L O <sub>2</sub>

#### Material

Required material (partly optional):

Reagents	<b>Packaging Unit</b>	Part Number
DPD No. 4	Tablet / 100	511220BT
DPD No. 4	Tablet / 250	511221BT
DPD No. 4	Tablet / 500	511222BT
DPD No. 4 Evo	Tablet / 100	511970BT
DPD No. 4 Evo	Tablet / 250	511971BT
DPD No. 4 Evo	Tablet / 500	511972BT

## **Application List**

· Pool Water Control

## Preparation

- When preparing the sample, Oxygen outgassing, e.g. through the pipette or shaking, must be avoided.
- 2. The analysis must take place immediately after taking the sample.



### **Notes**

- Active Oxygen is a synonym for a common disinfectant (based on "Oxygen") in treating swimming pools.
- 2. EVO tablets can be used as an alternative to the corresponding standard tablet (e.g. DPD No. 4 EVO instead of DPD No. 4).

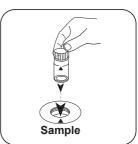


## **Determination of Oxygen, active with Tablet**

Select the method on the device.

For this method, a ZERO measurement does not have to be carried out every time on the following devices: XD 7000, XD 7500





Fill 24 mm vial with 10 mL Close vial(s). sample.

Place sample vial in the sample chamber. Pay attention to the positioning.





Press the **ZERO** button.

Remove the vial from the sample chamber.

For devices that require no ZERO measurement, start here.







Crush tablet(s) by rotating slightly.

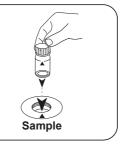


Close vial(s).





Dissolve tablet(s) by inverting.



Place **sample vial** in the sample chamber. Pay attention to the positioning.



Press the **TEST** (XD: **START**)button.



Wait for 2 minute(s) reaction time.

Once the reaction period is finished, the measurement takes place automatically. The result in mg/L Active Oxygen appears on the display.



### **Chemical Method**

DPD

# Calibration function for 3rd-party photometers

Conc. =  $a + b \cdot Abs + c \cdot Abs^2 + d \cdot Abs^3 + e \cdot Abs^4 + f \cdot Abs^5$ 

	ø 24 mm	□ 10 mm
а	5.11265 • 10 <sup>-2</sup>	5.11265 • 10 <sup>-2</sup>
b	7.65587 • 10 <sup>+0</sup>	1.64601 • 10+1
С	1.01147 • 10 <sup>+0</sup>	4.67552 • 10 <sup>+0</sup>
d		
е		
f		

### Interferences

#### **Persistant Interferences**

 All oxidising agents in the samples react like active oxygen, which leads to higher results.