

Urea T M391

0.2 - 5 mg/L Urea<sup>i)</sup>

Ur2

Indophenol / Urease

#### 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 100	ø 24 mm	610 nm	0.2 - 5 mg/L Urea <sup>n</sup>
MD50	ø 24 mm	680 nm	0.2 - 5 mg/L Urea <sup>i)</sup>

#### Material

Required material (partly optional):

Reagents	Packaging Unit	Part Number
UREA Reagent 1	15 mL	459300
UREA Reagent 2	10 mL	459400
Ammonia No. 1	Tablet / 100	512580BT
Ammonia No. 1	Tablet / 250	512581BT
Ammonia No. 2	Tablet / 100	512590BT
Ammonia No. 2	Tablet / 250	512591BT
Set Ammonia No. 1/No. 2 100 Pc.#	100 each	517611BT
Set Ammonia No. 1/No. 2 250 Pc.#	250 each	517612BT
Ammonia Conditioning Powder	Powder / 26 g	460170
Urea Pretreat (compensates for the interference of free Chlorine up to 2 mg/l)	Tablet / 100	516110BT
UREA Reagent Set	1 Set	517800BT

# **Application List**

· Pool Water Control

# Preparation

With the analysis of sea water samples, before the addition of Ammonia No. 1
 Tablet, two scoops of ammonium conditioning powder must be added to the sample and dissolved by swirling.





#### **Determination of Urea with Tablet and Liquid Reagent**

Select the method on the device.

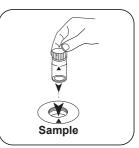
For this method, a ZERO measurement does not have to be carried out every time on the following devices: XD 7000, XD 7500



Put 5 mL sample and 5 mL of deionised water in the sample vessel.



Close vial(s).



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.



If free chlorine (HOCI) is present, add a UREA PRETREAT tablet.



Crush tablet(s) by rotating slightly.

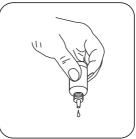


Close vial(s).





Dissolve tablet(s) by inverting.



Hold cuvettes vertically and add equal drops by pressing slowly.



Add 2 drops UREA Reagenz 1.



Close vial(s).



Invert several times to mix the contents.



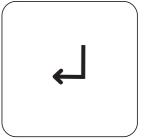
Add 1 drops UREA Reagenz 2.



Close vial(s).



Invert several times to mix the contents.



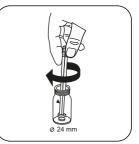
Press the **ENTER** button.



Wait for 5 minute(s) reaction time.



Add **AMMONIA No. 1 tablet** .



Crush tablet(s) by rotating slightly.





Add **AMMONIA No. 2 tablet** .



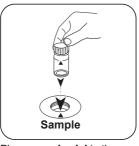
Crush tablet(s) by rotating slightly.



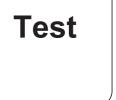
Close vial(s).



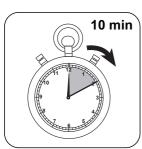
Dissolve tablet(s) by inverting.



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



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



Wait for 10 minute(s) reaction time.

Once the reaction period is finished, the measurement takes place automatically.

The result in mg/L Urea appears on the display.



# **Chemical Method**

Indophenol / Urease

<sup>&</sup>lt;sup>1)</sup> high range by dilution | \* including stirring rod, 10 cm