Lovibond® Water Testing

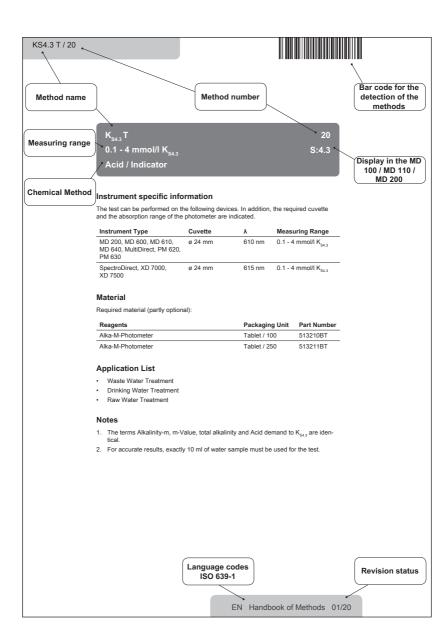
Tintometer® Group



Manual of Methods

MD50 • MD150





Performing test procedure

KS4.3 T / 20

Implementation of the provision Acid capacity $\mathbf{K}_{\mathbf{54.3}}$ with Tablet

Select the method on the device

For this method, no ZERO measurements are to be carried out with the following devices: XD 7000, XD 7500



Fill 24 mm vial with 10 ml





sample.

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







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



Press the TEST (XD: START) button.

The result in Acid Capacity K_{S4.3} appears on the display.

EN Handbook of Methods 01/20



Suspended solids 24

M384

10 - 750 mg/L TSS

SuS

Turbidity / Attenuated Radiation Method

Material

ΕN

Required material (partly optional):

Reagents Packaging Unit Part Number

no reagent required

Sampling

Measure the water sample as soon as possible after sampling. It is possible to store
the sample at 4 °C for 7 days s in plastic or glass containers. The measurement
should be at the same temperature as the sample. Temperature differences
between measurement and sampling can change the result of the measurement.

Notes

- The photometric determination of Suspended Solids is based on a gravimetric method. In a laboratory this is usually done by evaporation of the filter residue of a filtrated water sample in a furnace at 103 °C – 105 °C and weighing of the dried residue.
- When higher accuracy is required perform a gravimetric determination of a water sample. The result can be used to calibrate the photometer with the same water sample.
- 3. The estimated detection limit is 20 mg/L TSS.



Determination of Total suspended solids

Select the method on the device.

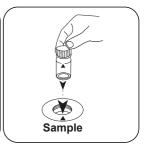
For this method, a ZERO measurement does not have to be carried out every time on the following devices: XD 7000, XD 7500

Homogenize mL of the water sample in a blender on high speed for minutes



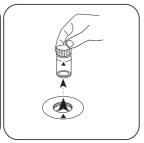
Fill 24 mm vial with 10 mL Close vial(s). deionised water.





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.



Mix homogenised water sample thoroughly.

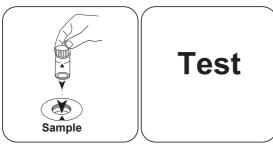


Pre-rinse vial with water sample.



Fill 24 mm vial with 10 mL prepared sample.





ΕN

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

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

The result in mg/L TSS (Total Suspended Solids) appears on the display.



Chemical Method

Turbidity / Attenuated Radiation Method

Appendix

Interferences

Persistant Interferences

· Colour interferes if light is absorbed at 660 nm.

Removeable Interferences

· Air bubbles interfere and can be removed by swirling the vial gently.

Method Validation

Limit of Detection	10 mg/L
Limit of Quantification	30 mg/L
End of Measuring Range	750 mg/L
Sensitivity	550 mg/L / Abs
Confidence Intervall	4.24 mg/L
Standard Deviation	1.79 mg/L
Variation Coefficient	0.47 %

Derived from

EN 872:2005

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