AOX₃

Adsorbable organically bound halogens

(continued)



2a. Decomposition if COD content is high, using a heating block

Add into a reaction tube 14 mm ID

- 1 NANOFIX AOX 3 R2,
- 1 black spoon AOX 3 R5 and
- 5 mL AOX 3 R3, close and mix.

Open and insert the *NANOSORB* to this solution with the help of a funnel, then press it down to the bottom of the tube using tweezers. Close the tube, place it into the heating block and heat at 120 °C for 30 min. Remove tube from heating block, shake gently and leave it to cool.

Open tube, add

- 3.5 mL AOX 3 R4 and
 - 1 orange spoon AOX 3 R6 (the solution becomes turbid), close and mix. Filter the solution with membrane or folded filters.

2b. Decomposition if COD content is high, using a microwave

Add to the decomposition vessel

- 1 NANOFIX AOX 3 R2,
- 1 black spoon AOX 3 R5 and
- 5 mL AOX 3 R3, close and mix.

Open and add the *NANOSORB* to this solution using tweezers. Add a glass rod to the vessel to prevent the *NANOSORB* from swimming on the surface. Close the decomposition vessel. Place it on the outer edge of the microwave revolving plate and heat 23 s at 900 VA or 28 s at 750 VA (always use the highest power rating of your microwave oven). Remove the vessel from the microwave and let it cool for about 10 min. Turn the pressure vessel upside down once and open it with caution. Add

- 3.5 mL AOX 3 R4 and
 - 1 orange spoon AOX 3 R6 (the solution becomes turbid), close and mix. Filter the solution with membrane or folded filters

3. Determination of AOX

Open test tube AOX, add

- **4.0** mL decomposition solution (let particles of adsorbent deposit or use membrane filters). Add
- 1.0 mL Chloride R2, close and mix.

Clean outside of test tube and measure after 3 min.

German standard methods for the examination of water, waste water and sludge (DIN EN 1485 H14 and DIN 38409 H22)

Reference: