EMO
ENVIRONMENT BY TECHNOLOGY

Testing laboratory

for effluent and sludge

Thanks to specific equipment and adjusted methods, EMO is fully competent to answer your needs and to offer solutions in conformity to local regulations and laws for municipal and industrial effluents (food processing industry, metallurgy, paper industry) and sludge treatment.



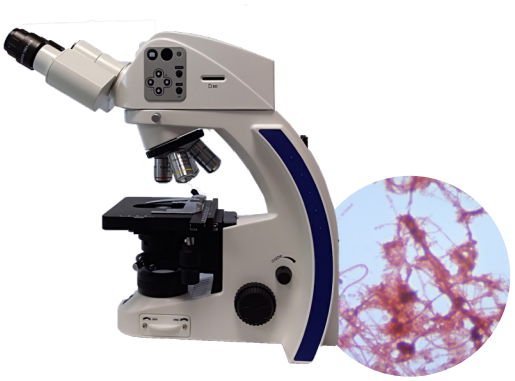
The Process and Engineering department of EMO does rely on its know-how and its experience in effluent and sludge treatment to help you guarantee on-site performance by:

- determining effluent and sludge characteristics through
- identifying the optimized treatment process and conditioning for your application through tests in laboratory
- measuring the efficiency of the selected process
- carrying tests on site
- sizing your installation: general arrangement and design of the effluent/ sludge treatment building



Information: the technical data announced are not contractual and may change at any time.

DETERMINATION OF EFFLUENT AND SLUDGE CHARACTERISTICS



- microscopic observation of sludge to identify micro organism and filamentous bacteria,
- sludge analysis: dry matter, organic matter, pH, redox, conductivity...
- effluent analysis: COD, total nitrogen, total phosphorus...

IDENTIFICATION OF THE BEST EFFLUENT OR SLUDGE CONDITIONING



- Chemical products are tested to determine the best possible conditioning for sludge and physico-chemical treatment for effluent: selection of the most suitable coagulant and/or floculant, determination of optimal dosage.

TREATABILITY TESTS IN LABORATORY



- Settling: study of the settling speed
- Flotation: test of flotation to simulate one flotation unit
- Thickening: thickening cell to simulate one gravity belt thickener
- Dewatering : compression cell to determine recommended dryness of a sludge (simulation of belt filter press, screw press, centrifuge, plate filter press)
- Tertiary filtration

ON SITE TESTS WITH PILOTS UNITS



- Pilot of gravity belt thickener
- Pilot of belt filter press
- Pilot of plate fiter press
- Pilot of tertiary filtration

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