ISO 5667-4:2026-02 (E)

Water quality - Sampling - Part 4: Guidance on sampling from lakes, natural and man-made

Contents

Page

Foreword ... iv

1 Scope ... 1

2 Normative references ... 1

3 Terms and definitions ... 1

4 Sampling equipment ... 3
4.1 Material selection ... 3
4.2 Cleaning ... 3
4.3 Maintenance ... 3

5 Design of the sampling programme ... 3

6 Sampling procedure ... 4
6.1 General ... 4
6.2 Sampling location ... 4
6.2.1 General ... 4
6.2.2 Horizontal distribution of sampling positions ... 4
6.2.3 Vertical distribution of sampling points ... 5
6.3 Frequency and timing of sampling ... 5
6.4 Choice of sampling method ... 5
6.5 Choice of the sampling device ... 6
6.6 Aids for recovery of lost sampling equipment ... 6
6.7 Blank sample ... 6
6.8 Transport, stabilization and keeping of samples ... 6

7 Occupational health and safety ... 6

8 Sample containers ... 7

9 Priority of procedure ... 7

10 Sample collection, contamination with environmental materials ... 8

11 Rinsing the sampling equipment ... 9

12 Sampling surface or near-surface water with an open sampling device ... 9
12.1 General ... 9
12.2 Sampling ... 9
12.3 Filling multiple containers ... 9

13 Sampling with closed samplers ... 10

14 Sampling for volatile parameters ... 10

15 Sampling through ice ... 10

16 Severe freezing conditions ... 10

17 Sample identification and records ... 11

18 Quality assurance and quality control ... 11
18.1 General ... 11
18.2 Avoidance of contamination ... 11

Annex A (informative) **Examples of sampling devices** ... 14

Annex B (informative) **Advantages and disadvantages of sampling equipment** ... 26

Annex C (informative) **Sampling from boats — Maintaining station** **27**
Annex D (informative) **Example of a report — Sampling from lakes, natural and man-made** **29**
Annex E (informative) **Continuous measurement of water samples with immersion probes** **30**
Bibliography **32**