(PREVIEW)

Indian Standard

METHODS OF SAMPLING AND TEST (PHYSICAL AND CHEMICAL) FOR WATER AND WASTEWATER

PART 42 COPPER

(First Revision)

1 SCOPE

1.1 This standard prescribes four methods for determination of copper as follows: a) Neocuproine method,

- b) Atomic absorption method (direct),
- c) Atomic absorption method (chelation extraction), and
- d) Differential pulse anodic stripping voltammetry.

1.2 The choice or the method depends upon the concentration range and interference. When the concentration levels are below 500 g/1, pre-concentration is carried out either by chelation and extraction prior to atomic absorption spectrophotometer (AAS) or by depositing as in differential pulse anodic stripping voltammetry method. For dissolved copper content filteration through 0.45 μm membrane filter is required.

2 REFERENCES

2.1 The following, Indian Standards are the necessary adjuncts to this standard:

Title
Methods of sampling and test
(physical and chemical) for
water and wastewater: Part I Sampling
Glossary of terms relating to
water, sewage and industrial
effluents: Part 1
Glossary of terms relating to
water, sewage and industrial
effluents: Part 2