

AMLT03 ANALYTICAL CHEMISTRY OF PRE-TANNING MATERIALS AND METAL TANNING AGENTS

UNIT-1 ANALYSIS OF WATER

- 1.1 Principles underlying determination in water
- 1.2 Chlorine by silver nitrate method
- 1.3 Iron by colorimetric method and Sulphates by gravimetric method
- 1.4 Temporary Hardness by Hehner's method.
- 1.5 Permanent and Magnesia hardness by Alkali precipitation method
- 1.6 Total hardness by EDTA method.
- 1.7 Effect of hardness of water on different stages of leather manufacture.

UNIT-2 ANALYSIS OF LIME

- 2.1 Principles underlying determination of following in lime
- 2.2 Available lime
- 2.3 Total bases by titration method
- 2.4 Iron by colorimetric method

UNIT-3 ANALYSIS OF SODIUM SULPHIDE

- 3.1 Principles underlying analysis of sodium sulphide by official International method.

UNIT-4 ANALYSIS OF LIME LIQUOR (FRESH & USED)

- 4.1 Principles followed to determine
- 4.2 Total alkalinity by boric acid method
- 4.3 Total lime by precipitation method
- 4.4 Total nitrogen by kjeldahl's method

UNIT-5 ANALYSIS OF DELIMING AGENTS

- 5.1 Principles underlying analysis
- 5.2 Ammonium salts
- 5.3 Organic & inorganic acids

UNIT-6 ANALYSIS PICKLE LIQUOR (USED & FRESH)

- 6.1 Principles followed for determination of acid and salt content in used and fresh pickle liquor.

UNIT-7 PRINCIPLES UNDERLYING ANALYSIS OF BATES

- 7.1 Enzymatic Activity
- 7.2 Ammonium salt content

Reference Books

- 1 Analytical Chemistry of Leather Manufacture – P.K.Sarkar, 2nd edition, I.L.T.A., Calcutta, 1982.