

2.17 30817 ANALYTICAL CHEMISTRY OF LEATHER MANUFACTURE

1. Principle and methods (in brief) employed for the analysis of water, curing and pretanning chemicals including spent liquors,
2. Vegetable tanning materials and extracts, chrome liquors and extracts, aluminium and zirconium tanning salts,
3. PH measurements indicators and their uses in testing.
4. Vegetable, mineral and combination tanned leathers for characteristics like degree of tannage, mineral oxide contents etc.
5. Physical testing of various types of leathers for tensile strength, elongation, dynamic water absorption, abrasion resistance rub fastness, shrinkage etc.
6. Use of instruments such as spectrophotometer, colorimeter, ion exchange resins etc. in testing of tanning chemicals.
7. Conservation of chemicals and water in the tannery.
8. Different practice and quality control of different methods of pre-tanning process as applied to light and heavy leather process control in pretanning and post tanning operation.

Reference books:

1. Unit Operations, McCabe & Smith, McGraw Hill in Chemical Engineering.
2. Chemical Engineering, Coulson & Richardson, Pergamon Press.

