

Chapter 3

METALS AND NON-METALS

Refining of metals:

- The metals formed in the extraction process are not completely pure.
- The process of purification of crude metal is called as refining of metal.

Electrolytic refining:

- Most of the metals like Cu, Zn, Al are refined by electrolytic refining.
- In this process, the pure metal rod is used as Cathode. The impure metal rod (Which has to be refined) is used as anode and the metal salt solution is used as electrolyte.
- On electrolysis, the pure metal from anode dissolves in electrolyte and an equivalent amount of pure metal from electrolyte gets deposited on the cathode.
- The impurities settles down at the bottom are called as anode mud.

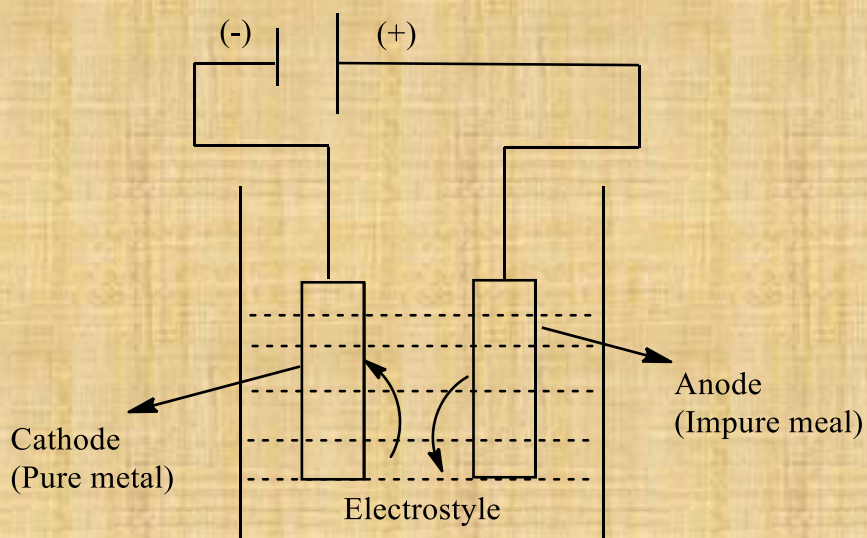


Fig. Electrolytic refining

