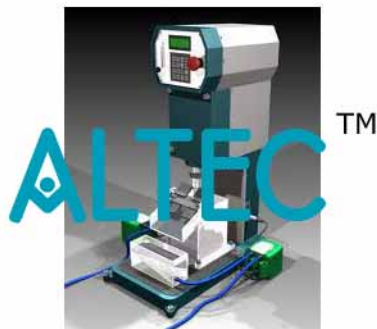


**Product Name :**  
Froth Flotation Cell**Product Code :**  
ALABS-A163-005**Description :****Froth Flotation Cell**

Mixed liberated particles can be separated from each other by floatation if there is sufficient difference in their wettability. The floatation process operates by preparing a water suspension of a mixture of relatively finely sized solids. This is usually done in an agitated chamber open at the top. Fine bubbles of air are then dispersed through the agitated suspension to form a froth that rises to the top of the chamber. Particles that are radially wetted by water (hydrophilic) tend to remain in the water suspension. Those particles that are not easily wetted (hydrophobic) tend to be collected at the air bubble-water interface and rise to the surface attached to air bubbles. Thus differences in the surface chemical properties of the solids are the basis for separation.

The set up consists of a agitated chamber open at the top. In the chamber, an impeller coupled to a shaft is fixed in a stationary diffuser. Low-pressure air is allowed to enter in the stationary diffuser through the air passage provided with the agitator. The collector coated mineral particles adhere to the rising bubbles and are carried to the top of the cell to be removed in the

froth product

**Experimentation:**

- To study the performance of Froth Flotation Cell.
- To find % recovery of mineral in froth from a standard mixture.

**Utilities Required :**

- Material for Feed, Frothing agents and collectors.
- Water Supply and Drain.
- Compressed Air Supply 1 CMH at 2kg/cm<sup>2</sup>.
- Electric Supply: Single phase, 220 V AC, 0.5 kW.
- Floor Area 1.5 m x 1 m.

**Technical Details :**

**Material:** Stainless Steel, Compatible capacity.

**Agitator:** Stainless Steel Impeller with Stainless Steel shaft coupled to FHP motor.

**Motor:** Material Stainless Steel holding the impeller.

**Frame:** Mild Steel, Capacity 20 Ltrs.

**Control panel:** Comprises of:

Standard make On/Off switch, Mains Indicator etc.

**Instruction Manual:** Instruction manual will be provided along with the Apparatus

A good quality painted rigid MS Structure is provided to support all the parts.



## Equipments Exporters

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