

Product Name :
Flow through Particle Layers India

Product Code :
NLAB-ENGINEERINGLB54026



Description :

Flow through Particle Layers

Technical Specification :

Technical Description:-

- Flow through particle layers is widely encountered in process engineering.
- In reactors, packed and fluidised beds are subjected to through-flow by liquids and gases.
- The separation of solids from suspensions by cake and depth filtration is another area of application.
- With the fluid mechanic principles involved in flow through packed beds and fluidised beds can be investigated.
- For the purpose, a fillable test tank made of glass is provided, through which water can be made to flow from both ends.
- A sintered-metal plate serves as the base for bulk solids.
- Water from the laboratory water connection flows into the test tank.

- To investigate flow through packed beds, the water enters the test tank from the top.
- It flows through the packed bed and the sintered-metal plate and passes by way of a distributor to the outlet.
- The experimentation set-up can be modified by means of quick-release hose couplings.
- This also enables the flow through the test tank to be reversed and fluidised beds to be investigated.
- The water flows upwards through the porous sintered-metal plate and the packed bed.
- If the velocity of the water is less than the so-called fluidisation velocity, the flow merely passes through the packed bed.
- At higher velocities, a fluidised bed is formed.
- The water flows from the head of the test tank into an expansion tank.
- From there it flows into the outlet.
- Regardless of the specific set-up, the flow rate is adjusted by a valve and indicated by a flow meter.
- To determine the pressure loss via the packed bed or fluidised bed, two manometers with differing measuring ranges are provided.
- The desired manometer is selected by way of valves.

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