

FLOCCULATED SYSTEM

- In flocculated system the individual particles are in contact with each other to form loose aggregates & create a network-like structure.
- Rate of sedimentation is high.
- Sediment is loosely packed. When shaken it can be redispersed easily & reform the original suspension.
- Flocculated suspensions are not elegant because they are difficult to remove from bottles or vials & on transferring from the bottle the flocs remain sticking to the side of the bottle.

DE-FLOCCULATED or NON-FLOCCULATED SYSTEM

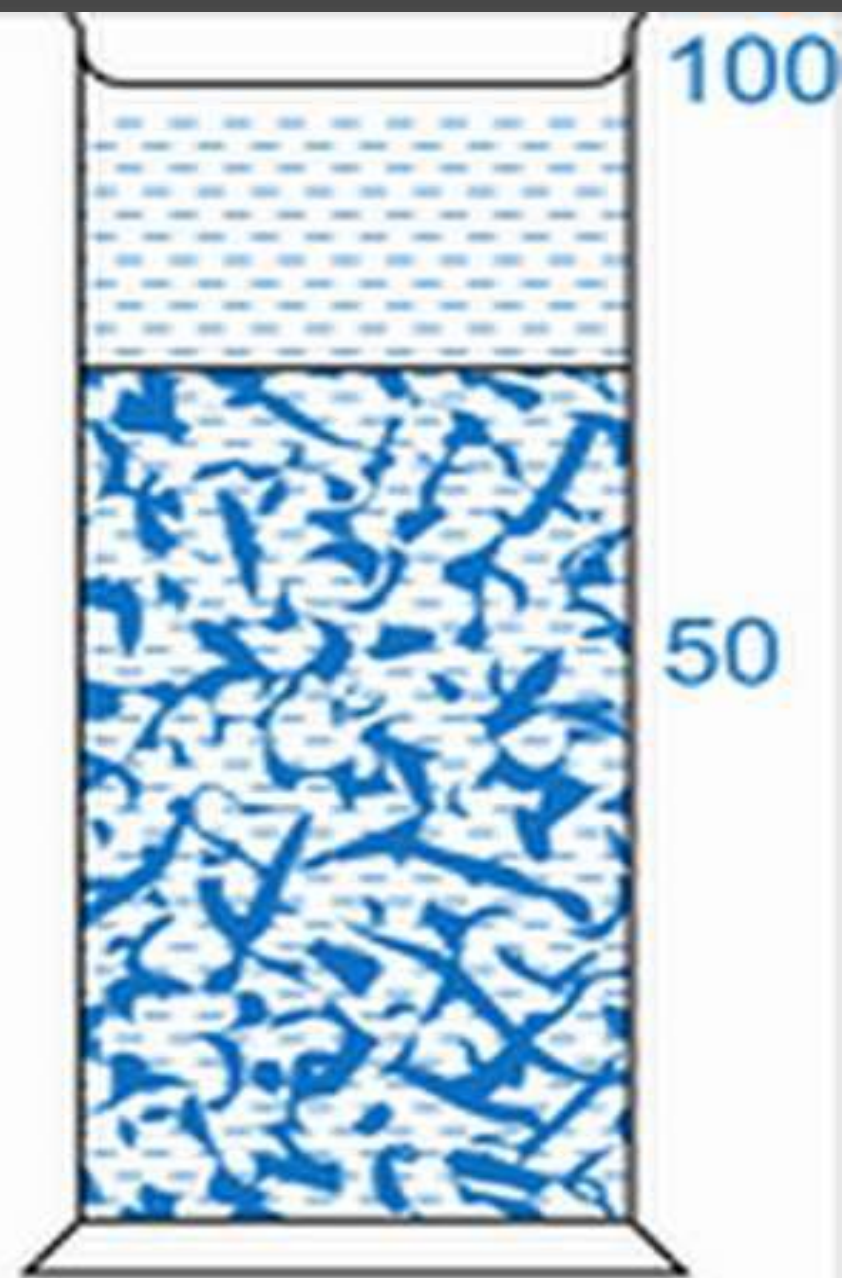
- In deflocculated system the individual particles exist as separate entities.
- Rate of sedimentation is low.
- Sediment is tightly packed. When shaking it cannot be redispersed easily & forms a cake.
- Deflocculated suspensions are elegant. They have a pleasing appearance because the substances remain suspended for a sufficiently long time.

Differences between flocculated and deflocculated suspension

Flocculated	Non-flocculated
<ol style="list-style-type: none">1. Particles forms loose aggregates and form a network like structure2. Rate of sedimentation is high3. Sediment is rapidly formed4. Sediment is loosely packed and doesn't form a hard cake5. Sediment is easy to redisperse6. Suspension is not pleasing in appearance7. The floccules stick to the sides of the bottle	<ol style="list-style-type: none">1. Particles exist as separate entities2. Rate of sedimentation is slow3. Sediment is slowly formed4. Sediment is very closely packed and a hard cake is formed5. Sediment is difficult to redisperse6. Suspension is pleasing in appearance7. They don't stick to the sides of the bottle



Deflocculated



Flocculated