

Definition of tapped density is an increased bulk density attained after mechanically tapping a container containing the powder sample. Tapped density is obtained by mechanically tapping a graduated measuring cylinder or vessel containing a powder sample. After observing the initial powder volume or weight, the apparatus measuring cylinder or vessel is mechanically tapped, and volume or weight readings are taken until little further volume or weight change is observed. The mechanical tapping is achieved by raising the cylinder or vessel and allowing it to drop under its own weight a specified distance by either of three methods as during tapping may be preferred to minimize any possible separation of the mass during tapping down. This parameter is very important in packing the material. During tapping of the sample, the smaller particles try to fit themselves in gaps of the larger particles and hence the total volume of the powder reduces.

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