

Pneumatic Conveyors

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Dilute Phase Mode of Conveying :

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Dilute phase is essentially suspension flow wherein the material to be conveyed is introduced into a moving air stream inside a pipeline. For the material to remain in

suspension there is a minimum conveying velocity which varies for different materials. The quantity of material that is fed into an air stream is also dependent on material characteristics like bulk density, particle size, sieve analysis, frequency distribution etc. Generally, the upper limit for material loading is approx. 6 to 10 kg. of material per kg. of air. Conveying velocities are in the region of 20 to 30m/sec. depending on the product.