Diatomaceous earth (Kieselgur) is a filter aid used for the filtration and clarification of beverages. The exposure of diatomaceous earth containing dust is very critical and endangers health. Calcined diatomaceous earth contains crystalline silica which is a known cause of silicosis, a progressive, sometimes fatal lung disease. Since 1998 it is classified as carcinogenic to humans in the highest category (IARC group 1). Permissible exposure limits lie in different countries between 0.05 and 0.4 mg/m³.

Pouring bags into a vessel creates dust and cannot be accepted anymore!

- The TDS Induction Mixer inducts diatomaceous earth dust free directly from the bag into the liquid!
- No raising the bags!
- No dumping or pouring them!
- No dust extraction is required!
- After induction the machine is switched to slow speed and mixes the suspension perfectly (Jetstream Mixer principle)

- Suspensions of diatomaceous earth always tend to sediment. No normal stirrer or agitator is able to keep this suspension really homogeneous - this is only possible using a Jetstream Mixer.
- The mixture takes place very carefully and does not change the characteristics of this shear sensitive suspension.
- With the same machine it is even possible to aspirate CO₂ for oxygen substitution highly effective.
- Depending upon the batch size different machine sizes are available.
- The induction speed ranges up to 20 kg/min.