

EKATO ENDSFOIL

Efficient mixing for crystallization processes

Industries

- Chemicals
- Polymers
- Pharmaceuticals

Applications

- Crystallization
- Precipitation
- Continuous processes
- Solid suspension
- Off-bottom suspension

Benefits

- Bottom impeller with improved blending
- Adaptable to vessel bottom shape
- Prevent sediment build-up
- Unaffected by agglomerates

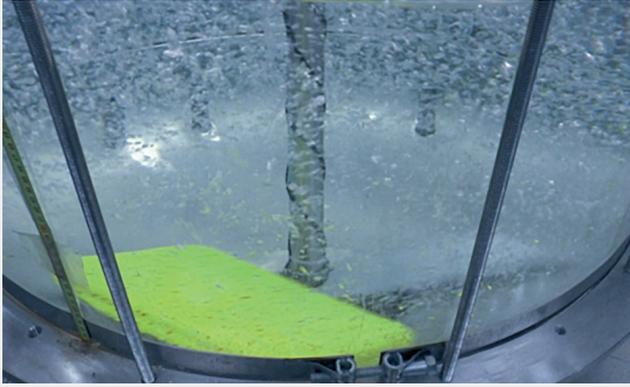
General features

- Close-to-bottom operation
- Short shafts with bottom-entry possible
- Radial plus axial flow
- Robust design



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Simulation of agglomerates in a 1 m³ vessel



Start with agglomerate of approx. 50 % of the vessel diameter



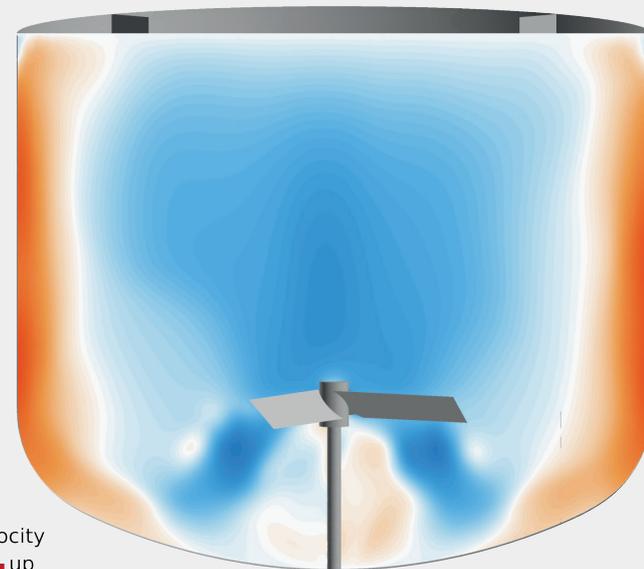
Agglomerates after 20 sec.

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The EKATO ENDSFOIL is a new impeller for suspending applications, such as crystallizations, where solid deposits should be prevented. The impeller is usually used as a bottom impeller in combination with an axial flow impeller but can also be used as a single stage up to aspect filling heights of 1 or even above. Due to the robust design and the installation close to the bottom, an excellent off bottom suspension even of larger agglomerates can be ensured without risk of damaging the agitator.



Comparison of the axial flow velocities induced by the ENDSFOIL



With a state-of-the-art axial flow impeller

