

The Highly Efficient and Wear Minimized Impeller

EKATO EPAL-R

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Increased Impeller Life-Time in Abrasive Environments

Industries

- Hydrometallurgy
- Chemicals

Applications

- Horizontal autoclaves
- Solid-liquid reactions
- Leaching applications

General features

- Specifically engineered blade geometry
- Wear protection coatings (optional)
- Abrasion and flow optimized
- Single or dual stage design
- Strong axial flow

Benefits

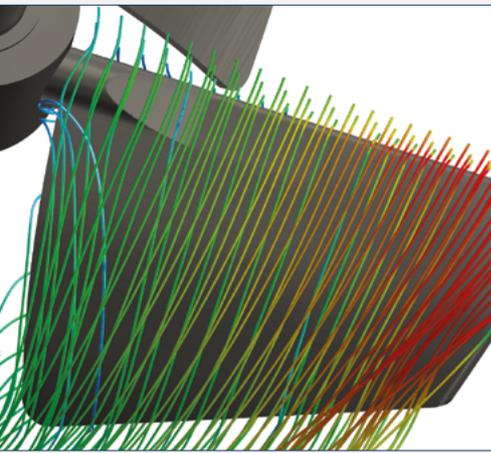
- Shorter blend times
- Significantly less power input required
- Optimal suspension even in the compartment corners
- Substantially reduced abrasion
- Increased lifetime, extended maintenance intervals
- Easy upgrade of existing agitators to EPAL-R
- Highly reduced operational costs



EPAL-R coated
with metal oxide

Advanced Process Solutions

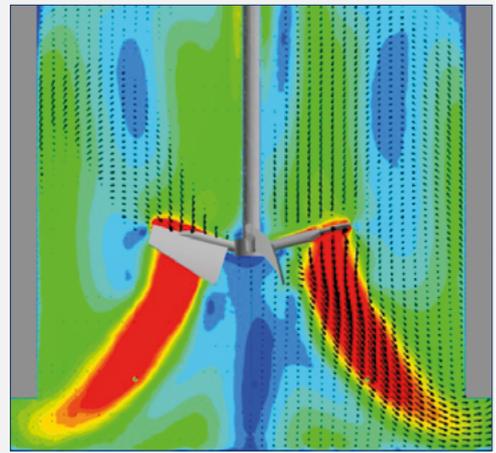
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Vortex free flow at impeller blade



EPAL-R coated with metal oxide



CFD simulation – Flow pattern of a single stage EPAL-R in a horizontal autoclave compartment

EKATO EPAL-R



50 m long HPAL autoclave with eight compartments, equipped with EKATO EPAL-R impellers

The EKATO EPAL-R impeller was developed to provide optimum suspending and blending characteristics in horizontal vessels, ultimately avoiding dead zones in the vessel compartments. Furthermore, its unique wear-optimized blade geometry, optionally equipped with wear-protective coatings, substantially reduces the abrasion on the blades. This makes it ideal for processing concentrated suspensions.

Therefore, the main benefits of the EPAL-R are highly reduced operational costs due to less required power input and significantly extended maintenance intervals. As the required power input is lower, it is possible to easily upgrade existing agitators.

