

Chemineer™ JT-2 Transitional Flow Impeller

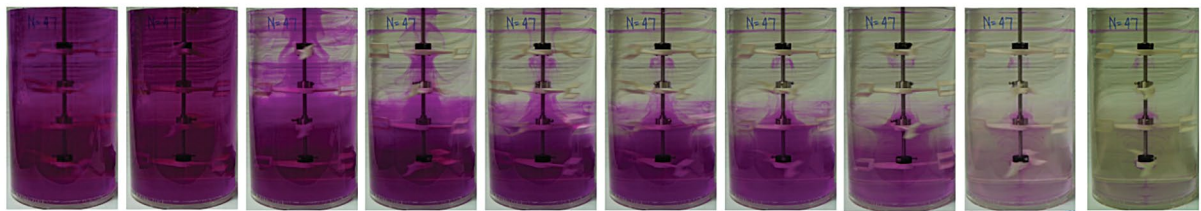


The JT-2 impeller is used for superior blending in transitional flow. High viscosity and non-Newtonian fluids make blending much more challenging. This impeller is used after conventional turbines have lost efficiency due to viscous effects and before the need for close clearance impellers.

The design promotes blending by efficiently moving material in one direction in the center of the tank and the opposite direction on the outside of the tank. The increase in efficiency of this impeller comes from the improved flow pattern that greatly reduces recirculation zones that extend the blend times of other impellers. This flow pattern improves the top to bottom communication in the vessel.

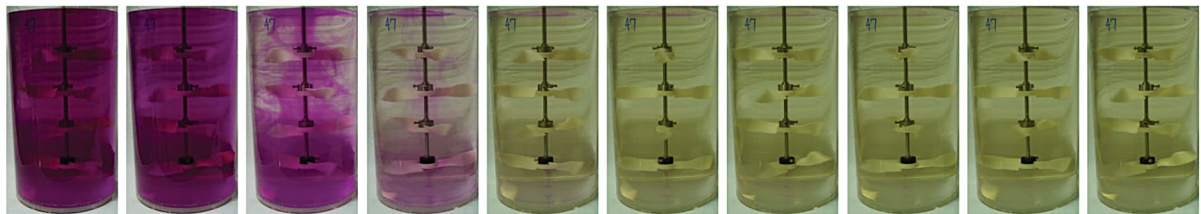
Enjoy superior blending in transitional flow.

Competitive Product



0 sec 10 sec 20 sec 30 sec 40 sec 50 sec 60 sec 70 sec 80 sec 90 sec

Chemineer JT-2 Impeller



Benefits

- Up to 50% reduction in power draw for the same blending performance compared with competitive impellers
- Significantly lower total machine cost compared to competitive designs
- Two bladed impeller for easy installation into vessels
- Design operates in either direction
- Improved heat transfer with impeller between 70% and 90% of the tank diameter
- Larger impeller diameter reduces the need for a close clearance impeller (Helix / Anchor) in the low transitional regime

Applications

- Polymerizations
- Food Processes
- Biopharma Processes
- Fermentations
- Paint Processes
- Heat Transfer and Blending Processes
- High Solid Loading Slurries
 - Coal
 - Catalysts

Efficiency

The improved flow pattern generated by the JT-2 impeller reduces circulation zones and promotes flow between impellers. This accelerates blending, yielding blend time reductions of up to 40% compared to competitive products. Users are able to improve process performance and reduce energy consumption.



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