Positioning of Viscous Concentration, Devolatilization, and Reaction Technologies

Considerations: Heat Sensitivity, Viscosity, Concentration, Economics

<table>
<thead>
<tr>
<th>Preconcentration</th>
<th>Concentration</th>
<th>Devolatilization</th>
<th>Trace Devolatilization</th>
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</thead>
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<tr>
<td>• Dilute</td>
<td>• Viscous Heat Sensitive</td>
<td>• Highly Viscous</td>
<td>• Very High Viscosity</td>
</tr>
</tbody>
</table>

| CONCENTRATE VISCOSITY (CP) | 1,000 | 50,000 | 1 Million | 20 Million | 50 Million |

AGITATED THIN-FILM PROCESSORS

- Flash Evaporator
- Vertical
- TURBA-FILM® and ROTO-VAK®
- Horizontal
- AJUST-O-FILM® and SAKO®
- Transported Flow
- Vented Extruder
- Single or Twin Screw Processors (Low Shear)
- Large Volume Processor

Pre-Reaction

Reaction

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