Drop behaviour in a pump-mix contractor - a study of the influence of mixer design, operating conditions and physical properties on the drop behaviour of liquid-liquid dispersions in a continuous flow pump-mix agitated tank.

- - Phase Inversion During Liquid

Description: -
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Colección Ambiente y derecho
ThesesDrop behaviour in a pump-mix contractor - a study of the influence of mixer design, operating conditions and physical properties on the drop behaviour of liquid-liquid dispersions in a continuous flow pump-mix agitated tank.
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Phase Inversion During Liquid

The impeller diameters were 177 mm.

Effect of static mixer geometry on flow mixing and pressure drop in marine SCR applications

Effect of static mixer geometry on flow mixing and pressure drop in marine SCR applications

In many cases, however, the overall control effect of a single pre-swirl control device fitted upstream of the first stage is sufficient.

Mixed flow pump

In practice, the number of stages is limited to two or three.

Effect of static mixer geometry on flow mixing and pressure drop in marine SCR applications

An experimental study of inversion has been made with mixer designs similar to those used industrially for metals extraction in mixer—settler equipment. In particular, there was a tradeoff relationship between the uniformity and the pressure drop.

Effect of static mixer geometry on flow mixing and pressure drop in marine SCR applications

The effect of vane angles on the relative intensity, uniformity index, and pressure drop was investigated in a swirl-type mixer; these parameters are dramatically affected by the mixer geometry. Phase inversion under poorly mixed conditions has been studied by determination of the minimum power input necessary to maintain an organic-continuous phase. .

Mixed flow pump

If the fluid handled is clean and the heads are no higher than 15 m, it is unnecessary to fit a front shroud on mixed flow impellers see.

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