

Solids Removal from Waste Oil

Introduction

The majority of waste oils are stabilized with 5-20% water and 0.5-2% solids. However, extended settling, distillation, or inadequate treatment may reverse the ratio of impurities.

Solids removal from oil is achieved by water-wetting the solids and removing them with the separated water. In the absence of sufficient water, a water wash process has to be performed, not unlike a refinery desalting operation.

Application

1. Heat the oil to 170-190°F, and mix in 5-15% fresh water.
2. Ensure complete dispersal of the water by feeding at the suction side of the circulating or transfer pump. The mixture should not show signs of separation for 30 minutes.
3. Inject RECOVEROL demulsifier at 1-2 gallons per 1000 gallons, and ensure brief, but complete mixing.
4. Maintain temperature above 160°F for 8-12 hours, then settle without further heating. Recover clean oil, and remove water and solids layer.
5. Successful solids removal has also been achieved adding the chemical before the wash water.

Technical Service

Emulsion Control, Inc. offers a complete package of preliminary system evaluation, chemical and dosage selection, the supply of chemical and the supervision of initial trials.

E.C.I. also has the ability to formulate tailor-made demulsifiers for unusual emulsion problems. Technical service and further information are available through your E.C.I. representative.

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