

Supercritical Biodiesel

A groundbreaking alternative for Biodiesel producers



Wilmar plant in Taizhou (Jiangsu), China

Supercritical biodiesel is a revolutionary alternative to conventional biodiesel. By avoiding the use of catalyst, it can process the least expensive, low cost waste oils and fats without pretreatment. Existing biodiesel facilities can be retrofitted.

The technology has been in commercial operation since 2017 and is a simple retrofit for existing transesterification facilities.



Advantages

- Feedstock flexibility (e.g. used cooking oil, corn oil, acid oil, tallow...)
- Option to retrofit to existing biodiesel facilities
- Attractive economics
- Easy to operate
- Higher quality products such as distilled biodiesel & crude glycerin (no salt)
- A lower carbon footprint of fuels produced (allowing US customers higher LCFS credits)



Feedstock

- Crude or refined vegetable oil
- Distillers' Corn Oil
- Used Cooking Oil
- Fatty acids distillate
- Other acid oils
- Tallow
- Yellow Grease
- Choice White Grease
no pretreatment needed



Products

- Distilled FAME compliant with ASTM D6751
- Premium crude glycerin (no salts)

Biodiesel plant economics: 300 tonnes per day

