

## EDIBLE / VEGETABLE OIL FILTRATION



**CHEMICAL PLANT & ENGINEERING (CPE)** is an Australian owned company specializing in the design, manufacture and supply of quality process equipment including Agitators, Filters and Powder Blenders. The Company offers a complete engineering service, from laboratory and pilot testing, through to detailed engineering design, manufacturing, installation and commissioning.

CPE's extensive installations lists and references, testifies to the Company's experience and capabilities to undertake both large and small projects. Our policy of continuous design development through in-house engineering or international licensing arrangements, has enabled CPE to introduce world leading technology to the process industries.

### EDIBLE OIL FILTRATION

Filtration is a critical step in processing edible / vegetable oil. The crude oil contains undesired by-products or impurities such as gums, slimes and gels that can negatively influence the taste, aroma and appearance of the oils.

Specialized filtration experience is therefore required to ensure maximum yield and a quality final product.

Filters are selected and customized to meet the needs of each application. Equipment can be manufactured to hygienic specifications, and pre-treatment of the filter, filtration and cleaning cycles can take place in a semi or fully automatic mode as required.

# EDIBLE / VEGETABLE OIL FILTRATION APPLICATIONS

## CRUDE OIL FILTRATION

Filtration of crude oil to remove solids / foots after pressing.

## HYDROGENATED OIL FILTRATION

Removal of catalyst after hydrogenation or interesterification.

## WINTERISED OIL FILTRATION

Removal of waxes to enhance cold stability of the oil.

## POLISHING FILTRATION

Safety / polishing filtration at various processing steps.

## BLEACHED OIL FILTRATION

Removal of absorbent (clay/silica/activated carbon) in batch or continuous bleaching/detoxification processes.

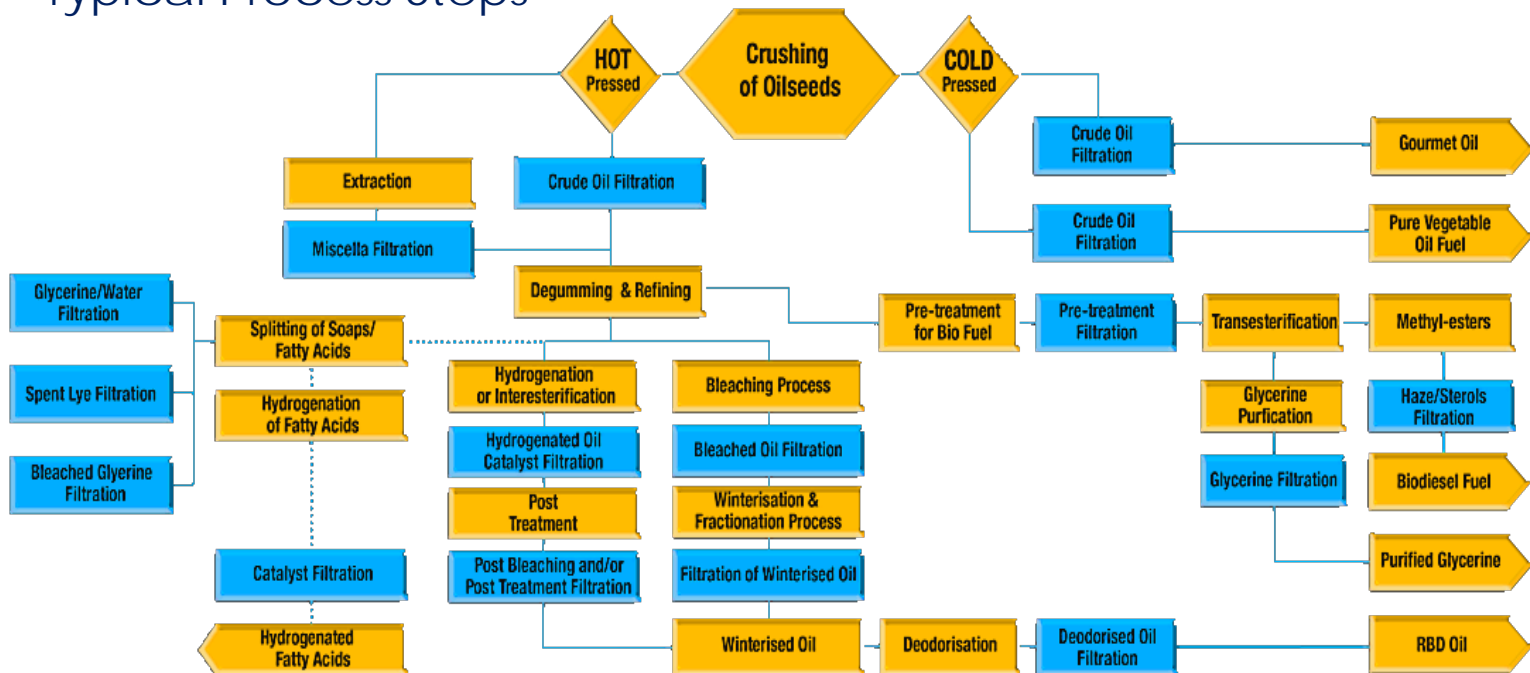
Other filtration steps include GLYCERINE, METHYL-ESTERS and OLEO-CHEMICALS

## KEY TECHNOLOGIES:

- PRESSURE LEAF FILTERS
- CANDLE FILTERS (CRICKET FILTER & PTS)
- BAG FILTERS
- CARTRIDGE FILTERS
- DEPTH FILTER SHEETS & LENTICULAR FILTERS



## Typical Process Steps



## CHEMICAL PLANT & ENGINEERING

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