

DETOXIFICATION PADS FOR GROUNDNUT OIL

Technology :

Process for manufacture and application of detoxification filter pads.

Application and Use :

For removal of aflatoxin from groundnut oil.

Feature :

A sizeable quantity of the groundnut oil gets contaminated with aflatoxin, a carcinogenic substance. The special filter pad removes both the suspended as well as dissolved particles of the toxin. These pads can be manufactured on a cottage scale. A slurry of activated fuller's earth and table salt is prepared with water and packed on a layer of filter cloth. The pad is initially allowed to dry in atmospheric conditions and then dried at 100°C for 8 hrs along with the supporting aluminium plate in a mechanical drier. The dried pads are packed in moisture proof packaging material. The pads are fitted to the plate and frame filter press in oil mills and filtration is performed in a normal manner. One pad can filter one ton with intermittent cleaning.

Equipment and Machinery : Slurry mixer, tray drier and heat sealer.

Raw Materials : Groundnut oil, salt, fuller's earth, corrugated box and plastic bags.

Status of Commercialization : Ready for commercialization

Minimum Economic Unit Size (MEUS) : 250 pads/day
