

Ester-based Food Grade Grease

Multipurpose grease for food & environmental applications

Research Focus Area : Value Addition
Program : Oleochemical Ingredients & Non-Food Products

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DESCRIPTION

- Food grade greases are commercially available and has been dominated by giant company. MPOB has developed the grease technology for SME to take up



PRODUCT HIGHLIGHTS

- Flexi and tailor-made grease formula to incorporate any ester oils
- Locally available ingredients
- Multipurpose grease (NLGI 2 adjustable, DP >170 °C)

ECONOMIC ANALYSIS

An investment of 2.7 million for a production of 270 t per year shall provide the following economic benefits:

NPV @ 5 year	RM 1,610,000
IRR	42.8 %
Discounted payback period	2.4 years

* Calculated based on discounted rate of 12%, profit margin 20%



SERVICES OFFERED

- Tailor-made grease formula and formulation guide
- Consultancy for pre-commercial and commercial production
- Production trials using grease pilot plant
- Grease performance testing
- Other grease technology offered:
 - ✓ Lithium Complex All purpose grease (NLGI 2-3, DP >316 °C)
 - ✓ Lithium complex Multipurpose grease (NLGI 2-3, DP >200 °C)