

Process Quality Control Tests

Esterification

Date 21/4/08Type of Oil olein/SoyaVessel No. 2Deodoriser No. 1

Process Stage	Test	Result	Remarks
Crude	Degree Acid	8.6	
After Dewaxing & Neutralisation	Degree Acid Clarity	1.1 Good	
First wash	Degree Acid P.H	1.2 8.0/8.5	
Second wash	P.H Water retention	7.0/7.5 Good	
Third wash	P.H Water retention	7.0 Negligible	
After drying	Degree Acid Moisture content	1.3 Nil	
Esterification	Degree Acid % Conversion	1.3 98%	
Methanol recovery	Methanol content Specific gravity	2.5 % 0.882	
First wash	P.H Soap/Glycerine content Degree Acid	9.5/10.0 Soap 550 p.p.m / Aly. 280 p.p.m 0.15	
Second wash	P.H Soap/Glycerine content Degree Acid	8.0/8.5 (S) 150 p.p.m / (G) traces 0.14	
Third wash	P.H Soap/Glycerine content Degree Acid	6.5/7.0 (S) traces / Nil 0.14	
After drying	Cold Filter Plugging	+ 3.0°/3.3°	
From Filter	Colour Specific gravity Cold Filter Plugging Degree Acid Viscosity	Good 0.884 2.0° 0.14 4.08	

Process Quality Control Tests

Esterification

Date 21/4/02

Type of Oil Dein/Soya

Vessel No. 3

Deodoriser No. 3

Process Stage	Test	Result	Remarks
Crude	Degree Acid	8.8	
After Dewaxing & Neutralisation	Degree Acid Clarity	1.0 Satisfactory	
First wash	Degree Acid P.H	1.20 8.0/8.5	
Second wash	P.H Water retention	7.0/7.5 good	
Third wash	P.H Water retention	6.5/7.0 Vertigible	
After drying	Degree Acid Moisture content	1.4 Nil	
Esterification	Degree Acid % Conversion	1.4 97%	
Methanol recovery	Methanol content Specific gravity	3.0/4.0% 0.883	
First wash	P.H Soap/Glycerine content Degree Acid	9.5/10.0 Soap 600 p.p.m / Glycerine 270 p.p.m 0.15	
Second wash	P.H Soap/Glycerine content Degree Acid	8.0/8.5 Soap 150 p.p.m / Glycerine Traces 0.18	
Third wash	P.H Soap/Glycerine content Degree Acid	6.5/7.0 Traces / Nil 0.18	
After drying	Cold Filter Plugging	+ 3.0% 3.3%	
From Filter	Colour Specific gravity Cold Filter Plugging Degree Acid Viscosity	Good 0.885 2.0% 0.18 4.1	

Process Quality Control Tests

Oils and Fats

Date 2/4/08

Type of Oil/Fat SOYA

Vessel No. 2

Deodoriser No. 1-3

Process Stage	Test	Result	Remarks
Crude	Degree Acid	5.0	
After Dewaxing & Neutralisation	Degree Acid Clarity	0.2 Good	
First wash	Degree Acid Soap content P.H	0.25 300 P.P.M 8.5/9.0	
Second wash	P.H Soap content Water retention	8.0/8.5 100 P.P.M negligible	
Third wash	P.H Soap content Water retention	6.5/7.0 60 P.P.M negligible	
Before Filter	Degree Acid Moisture content	0.32 1.07%	
From Filter	Colour	3.5 R/ 59 Y.	
Deodorised	Colour Taste Peroxide Value	1.2 R/11 Y. Good Nil	

Quality Controller:- _____

Process Quality Control Tests

Oils and Fats

Date

2/4/08

Type of Oil/Fat

Soya

Vessel No.

1

Deodoriser No.

2-3

Process Stage	Test	Result	Remarks
Crude	Degree Acid	5.0	
After Dewaxing & Neutralisation	Degree Acid Clarity	0.25 Good	
First wash	Degree Acid Soap content P.H	0.3 350 p.p.m. 8.5/9.0	
Second wash	P.H Soap content Water retention	7.5/8.0 100 p.p.m. negligible	
Third wash	P.H Soap content Water retention	6.5/7.0 50 p.p.m. negligible	
Before Filter	Degree Acid Moisture content	0.3 1.0%	
From Filter	Colour	3.5 R/48 Y.	
Deodorised	Colour Taste Peroxide Value	1.1 R/11 Y. Good NIL	

Quality Controller:-