**Sarex Chemicals**
**(A Divn. Of Saraf Chemicals Pvt. Ltd.)**

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# PRODUCT LITERATURE

# ESTOFEEL (CONC)

## Product Information

Estofeel (Conc) is specially developed hydrophilizing agent for polyester, polyamide and other synthetic fibres to overcome the generated static charge. It also improves wicking property of cellulosic fibres. Estofeel (Conc) imparts hydrophilicity, antistatic, soil release and soil resistant properties on hydrophobic fibres. On cellulosic's and it's blends, Estofeel (Conc) imparts soil release property against corn oil, coffee, ketchup and chocolate stains.

## Key Features & Benefits

| Key Features | Benefits |
|---|---|
| Antistatic and hydrophilic | Comfort properties for polyester and polyester rich blends |
| Concentrated | Economical |
| Dyeing | Compatible with dyeing recipe by exhaust process |
| Durable | Durable to home laundering |
| Versatile | Applicable by padding as well as by exhaust method |
| Cost effective | Price advantage to customer |
| Soil release and soil resistant | Value added finish |

## General Characteristics

| | | |
|---|---|---|
| Physical appearance | : | Yellow to Off white, Pellets to Irregular lumps |
| Ionic nature | : | Nonionic |
| pH of 1% solution | : | 5 +/- 2 |
| Miscibility | : | Miscible with hot water |
| Compatibility | : | Compatible with cationic, anionic and nonionic products |
| Stability | : | Stable to dilute acids and dilute alkalies |

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## Application

| Padding process | | Exhaust process | |
|---|---|---|---|
| Dosage | : 5-10 g/l(10%) | Dosage | : 0.5-1% (10%) |
| Pick-up | : 65-70 % | Bath pH | : 5.5-6.0 |
| Bath pH | : 5.5-6.0 | Bath Temp. | : 130 deg.C |
| Drying | : 120 deg.C, 2 mins. | Time | : 30-45 mins. |
| Curing | : 170 deg.C, 1 min.(Polyester) | | |
| | : 160 deg.C, 1 min.(Polyamide) | | |

## Instructions For Dilution

[I] Procedure to prepare 10% Estofeel(Conc)

- Take 90 parts of DM water of 60-70deg.C
- To this, gradually add Estofeel (Conc) with constant stirring using paddle stirrer (50-100 rpm)
- Continue stirring at 60-70 deg.C for 60-90 mins. to get homogenous product
- Lower down the temperature to 40 deg.C under constant stirring
- Filter/Strain the finished product to remove un-dissolved particles/lumps if any.

Note:

- pH of the diluted product should be 6-7

- Temperature of DM water should not go beyond 70 deg.C

[II] Procedure to prepare 17% Estofeel (Conc)

- Melt 173 parts of Estofeel (Conc)
- To this, add 825 parts of water under stirring
- To this, gradually add 7.5 parts of NaOH (33%), 38 Bc under stirring
- Add preservative and continue stirring for 30-45 min to obtain homogenous solution
- Filter/Strain to remove un-dissolved particles/lumps if any.
- pH of 17% Estofeel (Conc) will be 8+/-1

Preservation: It is recommended to add 0.1% Bronopol (2-Bromo,2-nitropropane, 1,3-diol) or Methyl Paraben (methyl para hydroxy benzoate) as an antimicrobial agent to avoid fungal/microbial growth.

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It is advisable to utilize the diluted product within 2 months. Stir well before use.

Note:

Estofeel (Conc), due to its chemical nature, has a tendency to melt at high temperature especially during transportation (shipping containers). The bags may appear to have been wetted. This will not have any adverse effect on the product performance.

## Precautions

| | | |
|---|---|---|
| Storage | : | Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg C. Close lids firmly to avoid contact with air and moisture. |
| Shelf Life | : | 9 months from the date of manufacturing, if stored under controlled conditions. |

[The above information is given in good faith and is without warranty]
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