

Paradise

Creacion

***SOFT AND ABSORBENT
TERRY TOWELS***



Soft & Absorbent terry towel



The primary function of a towel is to absorb moisture from the skin.

Therefore it should be soft and absorbent. Terry fabric is constructed of a pile weave with or without a jacquard pattern or other decorated designs, The loops of the pile have absorb the moisture.

Cotton is naturally hydrophilic (Water absorbent) due to the presence of $-OH$ group in its cellulose chain. These $-OH$ group form hydrogen bonds with the $-H$ present in water, to ensure an attraction of the water molecule to the cellulose fiber.

It is known that silicones are inherently hydrophobic (water-repellent), When terry fabric is finished with silicone OR any other softener for that matter, the hydrophilicity of the fabric is decreased. This Phenomenon can be altered when the silicone has an organofunctional modification which allowed the silicone itself to interact with water, much in the same way as cellulose does

The hydrophilicity of the terry fabric is better at lower dosages of softeners, whereas the handle imparted improves at higher dosage, which reduces the hydrophilicity of the fabric, so that search for the compromise between softness and hydrophilicity continues.

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Paradise/Creation is now offering a range of new generation textile softeners (silicone and non silicone based) that fulfill the requirements of great terry towels

- **Excellent absorbency**
- **Soft full handle**
- **Non Yellowing**
- **No influence on the light fastness and the shade**

- **SILTEX 30225 Hydrophilic**
- **SILTEX 30298 Hydrostar**
- **SILTEX 30344 Hydrosoft**



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An experiment was conducted for the comparison of our new range of hydrophilic softeners with conventional silicone and non silicone(cat ionic) softeners,the following products were used

- Siltex 30225 Hydrophilic
- Siltex 30298 Hydrostar
- Siltex 30344 Hydrosoft
- Product A (microemulsion of amino functional silicone)
- Product B (Fatty acid amide based non-silicone)

Fabric used: Towel fabric

Recipe:

Softener = 2% owf

Parameters:

Liquor Ratio = 1 : 10
pH = 4.5
Temperature = 40 - 45 °C
Time = 20 minutes

Process:

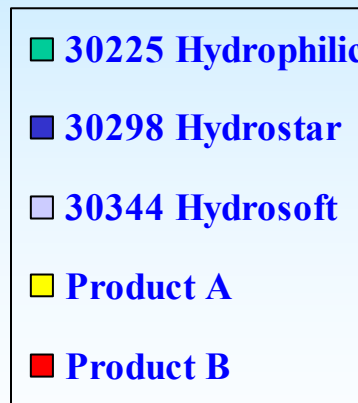
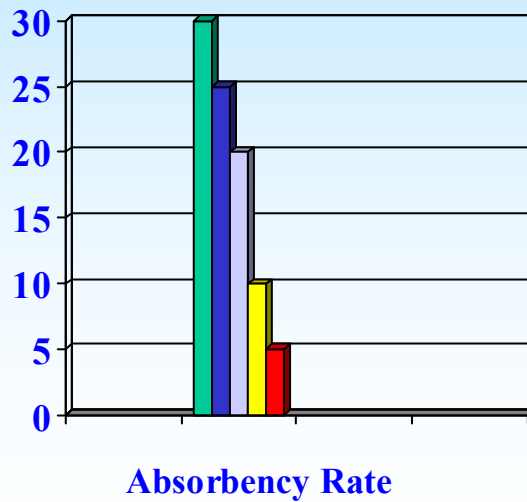
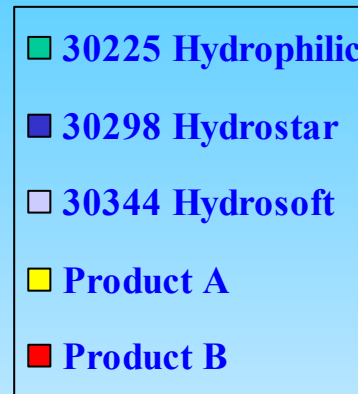
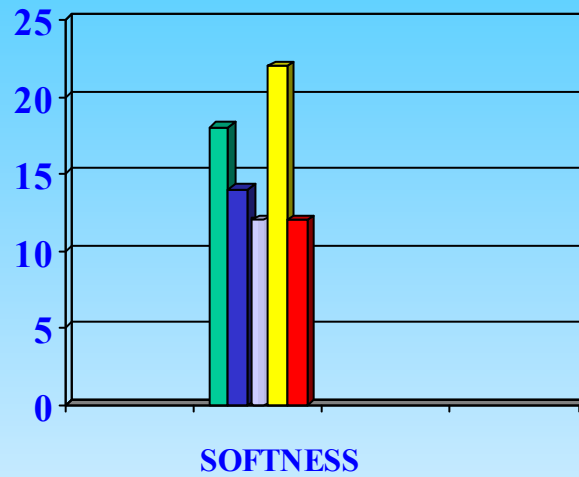
The towel was treated for 20 minutes at 40 – 45 deg C then dried at 150 deg C.

After treatment samples were tested for absorbency and softness. Absorbency time was tested by AATCC test method 79, **THE HIGHER THE ABSORBENCY TIME THE LOWER THE ABSORBENCY OF TOWEL.**

Softness is evaluated by the panel of peoples who make a ranking of sample, **WITH HIGHEST RANKING SHOWING THE SOFTEST PRODUCT.**



Results:



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