

Greener Technology.  
Superior Results.  
Higher Profits.

## **ProDet C**

Soaping Agent  
For Excellent Fastness




ProAvita ProDet C, globally, is the only one of its kind Probiotic Soaping Agent for dyed cotton / polyester / cellulose / viscose / blend fibre, yarn and fabric that offers several value adds across various processes. It is readily biodegradable and is not enzyme based. It offers tremendous flexibility in application as it can be applied for a wide range in pH and temperature. It delivers excellent fastness across various critical shades including Black, matching tough international norms. Besides it boosts profits by reducing operating costs. It does not contain phosphates or alkalies and hence dyed fabrics show better depth and brightness of colours. ProAvita ProDet C is Oeko-Tex (Class-I), GOTS 5.0 & REACH compliant and ZDHC Gateway Registered.

[www.proavita.com](http://www.proavita.com)

# ProAvita ProDet C pays for itself!



**Green Technology**  
Globally first of its kind for textile soaping. Reduction in TDS/ COD & BOD upto 40%.



**Low Temperature Single Soaping**  
For shades below 3.5% (except Turquoise), can be applied at 70°C itself



**Saves Water**  
20% of total water (minimum 2 baths) (For Soft Flow Machines assuming MLR of 1:6)

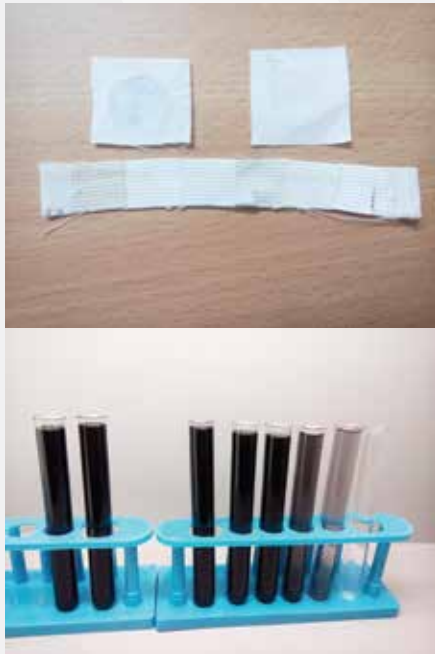


**Saves Energy & Time**  
20% of total energy and process time



**Superior Fastness**  
Meets International Standards of wet rub even for critical shades.

## Conventional Process



## ProAvita ProDet C Process



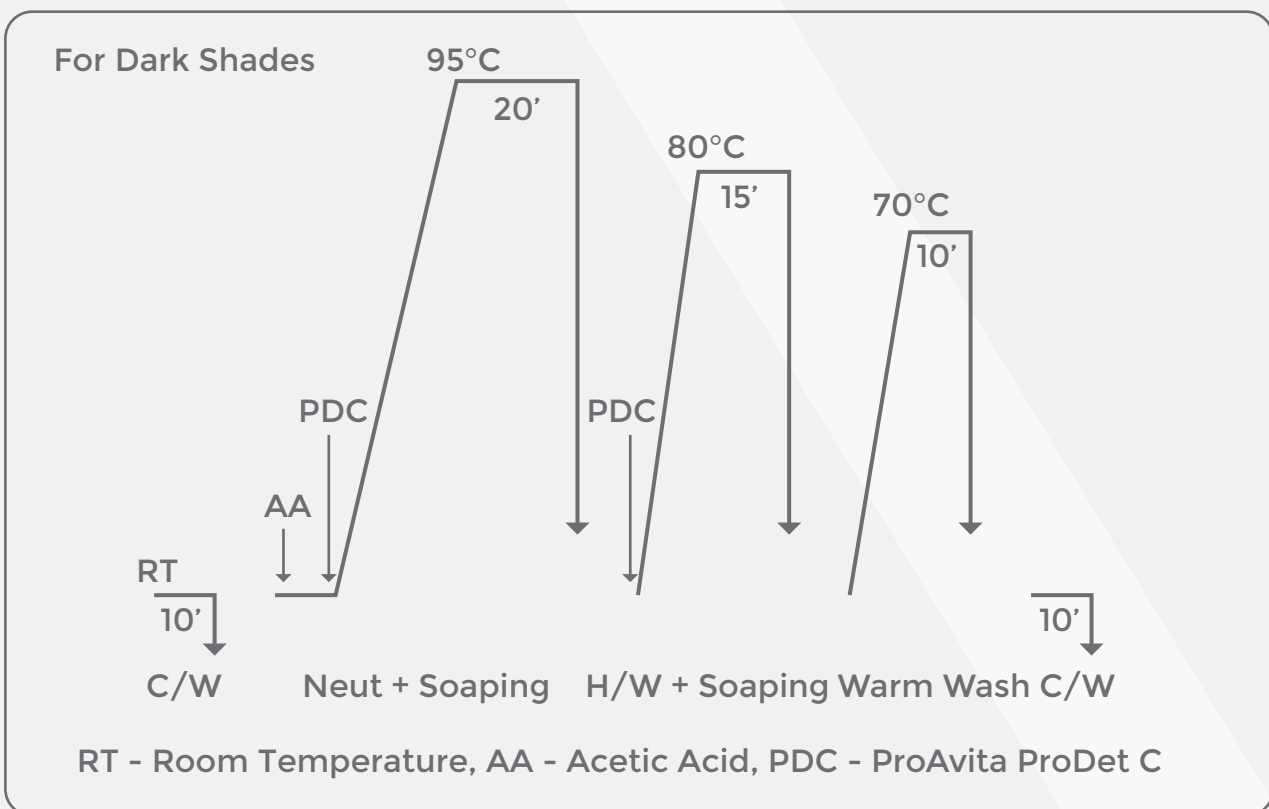
These results are for 8% Black Shade

## Savings for typical process for 1000kg load

| Total Savings  | Units Saved          |
|--|----------------------|
| 20% of total water (minimum 2 baths)<br>(For Soft Flow Machines assuming MLR of 1:6) | 12,000 lts of water  |
| Water saved in Rs. (Cost of ETP+L&T water = Rs.0.25/ltr)                             | INR 3,000/- (USD 46) |
| 20% of energy and time   | 250 units of energy  |
| Energy saved in Rs. (@ approx Rs. 7/unit)  | INR 1,750/- (USD 27) |
| BOD / COD & TDS additional benefits  |                      |

| Bath No. | Process  | For all colours upto 3.5% Depth except Turquoise | For all colours above 3.5% Depth and Turquoise (and similar critical colours) |
|----------|--|--|---|
| 1        | Warm Wash over flow                                | 60°C   10 mins                                   | 70°C   10 mins  |
|          |  | Drain the bath                                   | Drain the bath  |
| 2        | Neu. With AA + Add ProAvita ProDet C Soaping Agent | 65°C   1 GPL/%   20 mins                         | 95°C   1.5 GPL/%   20 mins  |
|          |  | Drain the bath                                   | Drain the bath  |
| 3        | Warm / Hot Wash                                    | 65°C   15 mins                                   | 80°C   0.5 GPL/% PDC   15 mins  |
|          |  | Drain the bath                                   | Drain the bath  |
| 4        | Warm Wash  | NA   | 70°C   10 mins  |
| 5        | Cold Wash  | 40°C   10 mins                                   | 40°C   10 mins  |
| Summary  |  | 4 Baths   55 mins                                | 5 Baths   65 mins   |

Recommended Dosage - GPL for 1:6 MLR & above and % for below 1:6 MLR



## Benefits

- **Multiple Applications** - Soaping / Stain Removal / Anti-tinting
- Can be used for **Polyester soaping**
- Can be used across **both Exhaust and Continuous** Processes
- **Low Temperature Soaping** - For shades below 3.5 % (except Turquoise), ProAvita ProDet C can be applied at 70° C itself
- **Improves Fastness** - Delivers excellent wet rub fastness consistently even across difficult shades
- **Reduces Wash Cycles** - A Single Soap cycle is sufficient even in the case of dark shades and therefore the number of wash cycles is reduced. In addition, soaping can be done after neutralisation without draining the bath. This helps in further reducing the washing requirement
- **Better quality** - Good brightness and depth of colours due to superior dispersion property
- **Improves softness** in yarn and fabric
- **Reduces Pollution Load** - Real time data collected from the site of ProAvita ProDet C users have clearly established that effluent parameters such as BOD / COD, TDS etc., are seen to be lower by 15 to 20 % even with reduced water usage

## Application

ProAvita ProDet C is applied at the rate of 0.5% - 1.5% (or GPL) in soaping in various processes such as Cheese Dyeing , Cabinet, Softflow, Continuous, Jigger etc.

## Tech Specs

|                           |   |
|---------------------------|---|
| Physical Form             | Liquid  |
| Colour                    | Light Ivory to Dark Ivory*  |
| Odour                     | Citrus  |
| Operating Range           | 2.50 - 14.00 pH, 1°C to 140°C   |
| Effective Substance       | A consortium of biochemicals derived from Probiotics                  |
| Stability To Electrolytes | Stable to electrolytes used in textile operations                     |
| pH                        | 2.7 < V < 3.5   |
| Biodegradable             | Readily Biodegradable   |
| Storage                   | Store at room temperature; do not freeze                              |
| Safety Precautions        | Non-hazardous, does not require any protective equipment for handling |

Note: The data above is based on our current knowledge, experience and tests conducted. Processors are however requested to carry out their own tests.

\*Minor variation in color could occur due to organic nature of the raw material used.