

## Toothpaste

18-02-204

**Claims:** Preservative free  
**dermofeel® PA-3 and dermofeel® Phenon 90 M for dental protection**

| Phase | Ingredient   | INCI  | Supplier                          | %                   |
|-------|--|---|-----------------------------------|---------------------|
| A     | Tap Water  | Aqua  |                                   | 21.25               |
|       | <b>dermofeel® PA-3</b>   | Sodium Phytate, Aqua  | <b>Dr. Straetmans</b>             | <b>0.20</b>         |
|       | RonaCare NaF   | Sodium Fluoride<br>Regulation: max. 0,33% (= 0,15% F)                 | Merck                             | 0.30                |
|       | Sorbitol 99%   | Sorbitol  | Merck                             | 30.00               |
|       | Saccharin-Natrium  | Sodium Saccharinat  | Merck                             | 0.20                |
|       | Glycerol   | Glycerin  |                                   | 20.00               |
|       | Presolution of <b>dermosoft® 688</b><br>(10%) in <b>dermofeel® G 10 LW</b><br>Dyestuff solution Blue W 92 0,1% | Polyglyceryl-10 Laurate, Aqua,<br>Aroma, Sodium Hydroxide<br>CI 42090 | <b>Dr. Straetmans</b><br>Wackherr | <b>1.00</b><br>0.15 |
| B     | Blanose  | Cellulose Gum   | Aqualon                           | 0.25                |
|       | Keldent  | Xanthan Gum   | Kelco                             | 0.25                |
| C     | Tap Water  | Aqua  |                                   | 1.00                |
|       | Sorbitol 99%   | Sorbitol  | Merck                             | 2.00                |
|       | Kemira AFDC  | Titanium Dioxide CI 77891   | Kemira                            | 1.00                |
| D     | Tap Water  | Aqua  |                                   | 1.00                |
|       | <b>dermofeel® Phenon 90 M</b>  | Camelia Sinensis Leaf Extract   | <b>Dr. Straetmans</b>             | <b>0.10</b>         |
| E     | Zeodent 113 (polishing type)   | Hydrated Silica   | J.M Huber                         | 12.00               |
|       | Zeodent 163 (thickening type)  | Hydrated Silica   | J.M Huber                         | 3.50                |
| F     | Optamint 204206  | Aroma   | Symrise                           | 0.80                |
|       | <b>dermofeel® G 10 LW</b>  | Polyglyceryl-10 Laurate, Aqua   | <b>Dr. Straetmans</b>             | <b>2.50</b>         |
| G     | Citric Acid Solution 20%   | Citric Acid   | Merck                             | 2.50                |
|       |  |   |                                   | <b>100.00</b>       |

### Manufacturing Procedure:

1. Dissolve ingredients of phase A in given order. Heat to 50 °C. Add and dissolve phase B.
2. Predisperse C properly. Cool to 30 °C and dissolve D.
3. Add the polishing agent before the thickening type of Silica (E). Stir until completely incorporated. Add premix of F. Adjust pH value to pH 5.0 – 5.5. De-air the product.

### Specification Values:

Appearance: Light-brown gel. pH: 5.0 – 5.5.

Viscosity (Brookfield: Spindle 6; Speed 10): Approx. 23.000 mPa.s.

Stability: Stable for more than 3 months at 20°, 40°, 4 °C.

**Microbiological Stability:** Proven.

## Presolution of **dermosoft® 688** (10%)

| Phase | Ingredient                 | INCI                          | Supplier              | %             |
|-------|----------------------------|-------------------------------|-----------------------|---------------|
|       | <b>dermofeel® G 10 LW</b>  | Polyglyceryl-10 Laurate, Aqua | <b>Dr. Straetmans</b> | <b>62.50</b>  |
|       | <b>dermosoft® 688</b>      | Aroma                         | <b>Dr. Straetmans</b> | <b>10.00</b>  |
|       | Sodium Hydroxide (sol.10%) | Sodium Hydroxide              | Merck                 | 27.50         |
|       |                            |                               |                       | <b>100.00</b> |

**Manufacturing Procedure:** Mix all components at appr. 40 - 60 °C. Stir until clear.

**Specification Values:** Appearance: Light yellow solution. pH: 7.2 -7.8.

### Disclaimer:

The information contained herein is meant to demonstrate how our products can be used. The given data are suggestions without any guarantee aimed to support customers' development. As production conditions at our customers' facilities are beyond our control we refuse to accept any liability involved in the use of our products. Please observe possible third party patent rights.

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