



# Gentle toothpaste containing Omyadent® 100-OG and Zemea® propanediol

*Omyadent® 100-OG provides remineralization & whitening*

Phase	Ingredient	INCI name	Supplier	Wt.%
A	Aqua dem.	Aqua (water)	—	add. 100%
	Cellulose gum	Cellulose gum	Sigma Aldrich; Switzerland	0.80%
	<b>Zemea® propanediol</b>	<b>Propanediol</b>	<b>CovationBio PDO</b>	<b>25.00%</b>
	Glycerin	Glycerin	Sigma Aldrich; Switzerland	15.00%
	Aloe vera	Aloe barbadensis leaf juice	Omya Hamburg GmbH; Germany	0.20%
	Potassium sorbate	Potassium sorbate	Hansler AG; Switzerland	0.20%
B	Omyadent® 100-OG	Hydroxyapatite (and) calcium carbonate	Omya AG; Switzerland	5.00%
	Sorbosil AC35	Hydrated silica	PQ Corporation; England	20.00%
	Titanium dioxide	Titanium dioxide	Sigma Aldrich; Switzerland	0.50%
C	Sobosil TC15	Hydrated silica	PQ Corporation; England	6.40%
D	Redistilled peppermint rosa oil	Aroma	WILD Flavors & Specialty Ingredients; Germany	1.00%
	Limonene	Limonene	Omya Hamburg GmbH; Germany	0.10%
	Total			100.00%

Prototype formulation provided by: Omya, Oftringen, Switzerland

## Procedure

1. Phase A: In a beaker combine sorbitol with all powders and mix under strong agitation. Add water and stir until a homogeneous texture is obtained.
2. Add phase B step by step to phase A.
3. Add phase C step by step under strong agitation and homogenize.
4. Stir slowly and cool down to room temperature.
5. Finally add flavorings also under slow agitation.

## Product features

1. Appearance: pH: 8.30 (25%, RT)
2. Stability: 3 months: RT