

ubb™ eco+ toothpaste tablets

formula # 12940-17-1

material # 970343

 96%

claim to fame

—
eliminate single-use plastic
with this tablet for clean,
strong teeth and fresh
breath



—
contains fluoride for anti-
cavity protection



—
96% natural origin content¹



—
strong
tablets that maintain
integrity in the pack – travel
friendly



nature-derived

meets ISO 16128-2:2017 50% - 99% natural
origin content standard



biodegradable

Has attained a sufficient level of
biodegradation that meets the
requirements for 'ready' or 'inherent'
according to OECD or related methods
such as, 301, 302, or 306. Or product has
been assessed as being biodegradable
based on a read-across.

The unBottling Beauty™ (uBB™) concept from Ashland includes a range of low-environmental impact beauty and personal care products formulations.

description

Drop the traditional toothpaste tube with this eco-friendly, water-free toothpaste tablet for cleaning teeth and freshening breath. It contains fluoride to fight cavities. Made without SLS and parabens. Simply bite, chew, brush for 2 minutes, spit and rinse. Use one tablet per brushing. These tablets can be easily supplied in a recyclable package. The compact, water-free format reduces CO₂ production during transportation, eliminates packaging waste helping you to protect the environment. It's time to smile!

ingredients

Klucel nutra™ d modified cellulose 

Derived from sustainable cellulose² – a renewable and abundant resource, this directly compressible tablet binder creates tablets with high breaking force and low friability to maintain tablet integrity. It improves formulation compressibility, resulting in less tablet force and ejection forces to less tablet press wear. Vegan suitable.³ Kosher and Halal-certified.

Aqualon™ 9M31XF CMC  

Derived from sustainable cellulose², this COSMOS*-validated, biodegradable and water-soluble polymer absorbs water/saliva to create a desirable paste-like mouthfeel after chewing tablet. With a natural origin content of 73%, it is also vegan suitable³ as well as Kosher and Halal-certified.

typical properties

description: white, round tablet

tablet weight: 600 mg

tablet breaking force: 69 N

tablet friability: 0.78%

Stability study in-progress. Information available on request

It has not been optimized for flavor.

1. calculated based on COSMOS standard and ISO 16128-2:2017

2. wood-based cellulose is from suppliers that have made commitments to utilize standards set by the Forest Stewardship Council (FSC) and/or Program for the Endorsement of Forest Certification (PEFC)

3. meets Ashland's criteria for animal content, animal testing and manufacturing practices

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	ingredients (trade name INCI)		% w/w	mg/ tablet	supplier
	phase a				
1	Xylitol	Xylitol	58.00	348.0	
2	Avicel* PH 101 MCC	Microcrystalline Cellulose	10.00	60.0	Iff/Dupont
3	Sodium bicarbonate	Sodium Bicarbonate	9.76	58.56	
4	Aqualon™ 9M31XF CMC	Cellulose Gum	3.00	18.0	Ashland
5	Sodium fluoride	Sodium Fluoride	0.240	1.44	
6	Zeodent* 113 silica	Hydrated Silica	10.00	60.0	Evonik
7	Amisoft* CS-11 surfactant	Sodium Cocoyl Glutamate	2.00	12.0	Ajinomoto
8	Klucel nutra™ d modified cellulose	Hydroxypropylcellulose	3.00	18.0	Ashland
9	Organic stevia extract (Rebaudioside A 98%)	Rebaudioside A	1.00	6.00	
10	Micron* Intensates* N&A Peppermint (TAK 211876)	Flavor	2.00	12.0	Takasago
11	Magnesium stearate	Magnesium Stearate	1.00	6.00	
	total		100.00%	600 mg	

equipment:

Patterson Kelly V-Blender, Stylcam compaction simulator with 7/16" flat-faced, bevel-edge B tooling, 20 and 35-mesh screens.

procedure:

1. Screen ingredients #'s 1-10 into the blender through the 20-mesh screen.
2. Blend for 10-minutes at 24 RPM.
3. Screen the magnesium stearate through a 35-mesh screen and blend for 3-minutes at 24 RPM.
4. Tablet the final blend with the Stylcam compaction simulator at 37 RPM (to simulate a Fette model 2090 tablet press) using 30 KN compression force (target tablet breaking force: 69 N).

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