

PRODUCT INTRODUCTION

ORASIL 165



INNOVATION TO SOLUTION

STOCK CODE: 301059

Feature

- ✓ High whiteness, uniform particle size distribution;
- ✓ High fluorine compatibility (≥90%) ;
- ✓ Good compatibility with other toothpaste components such as flavor;
- ✓ Provide high viscosity for toothpaste.

Index	Test Method	Technical Data	Test Result
Whiteness (Wg) %	QB/T 2346-2015	≥96	99.07
Oil Absorption (g/100g)	ASTM D281	210-245	227
Water Absorption (ml/20g)	QB/T 2346-2015	42-48	43.9
1000°C Loss on Ignition %	QB/T 2346-2015	≤8.5	5.09
105°C Loss on Drying %	QB/T 2346-2015	≤10	5.26
Purity as SiO ₂ %	QB/T 2346-2015	≥96	98.8
Total Salts (as Na ₂ SO ₄ +NaCl) %	QB/T 2346-2015	≤2.0	0.78
pH (5%Slurry)	QB/T 2346-2015	5.5-8.5	7.10
Apparent Density g/ml	QB/T 2346-2007	0.10-0.18	0.14
Median Particle Size-D ₅₀ μm	GB/T 19077-2016	11-16	14.3

Certificate

CAS-NO.	112926-00-8 / 7631-86-9
<ul style="list-style-type: none">Product specifications meet USP-NF(Dental Type Silica) , USP-NF, EP (Silica, dental type) , FCC requirements;The factory is certified by ISO 9001, ISO 14001, ISO 22000, ISO 50001, ISO 45001, and implemented GMP management;The laboratory is certified by CNAS;Certified by REACH, Sedex and EcoVadis;Certified by Kosher and Halal;Meets ECOCERT certified COSMOS(as inorganic material) standard;Listed as a "derived mineral component" in Annex D to ISO 16128-1 with the INCI designation of hydrated silica;Listed in Annex 2(Naturally similar Inorganic pigments and minerals approved in Natural Cosmetics) by NATRUE with the INCI designation of hydrated silica.	

Application

An ideal thickening choice for premium toothpastes that provide high viscosity.

Method of Use

In the toothpaste formula, the addition amount of 3%-8% is used in combination with abrasive silica.

Storage Condition

Store in a cool and ventilated warehouse; Moisture-proof; Keep away from fire; Avoid direct sunlight; Should be stored separately from chlorine trifluoride, do not mix storage. Even if the product is stored under these conditions, after a longer period of time, it will still absorb moisture in the environment, causing its moisture content to exceed the specified value. The recommended shelf life is 24 months after the production date. Products older than 24 months should be tested for moisture content before use to ensure they are still suitable for their intended use.

Packing

10kg/ small bag or 180kg/ton bag.

Health and Safety

Use personal protective equipment; Avoid inhaling dust; Ensure good ventilation.

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Jinsanjiang (Zhaoqing) Silicon
Material Company Limited

- Tel: +86-20-8739 8479
- Web: www.jsj-silica.com
- Factory Add.: No.15 Chuangye Road, High-tech Zone, Zhaoqing, Guangdong, China.
- Office Add.: 15F, South Tower, IMC, Huangpu District, Guangzhou, China.



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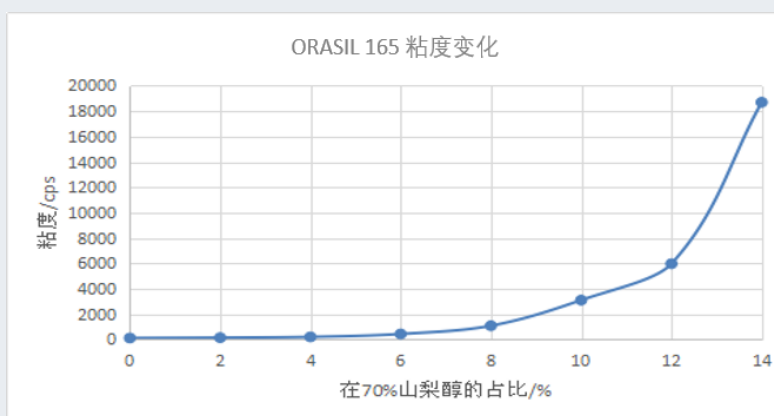
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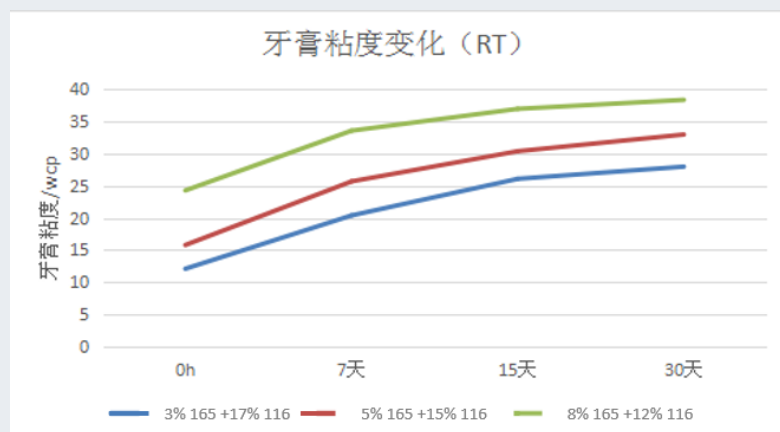
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Viscosity Change of Toothpaste

Silica powder viscosity test: a certain proportion of ORASIL 165 silica powder is evenly dispersed in sorbitol solution under stirring, and then the viscosity is tested by BROOKFIREDDV2T viscometer, RV(04) rotor and 20RPM, and the viscosity value is read 1min later.



The viscosity varies with the addition amount (0-14%)



Toothpaste viscosity change over time (30 days).

3%-8% addition

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