



Tartar Control Toothpaste

OC-TP HL-7

This tartar control toothpaste features **Carbopol® ETD 2020 NF polymer** which is used as a thickener and co-binder in the formulation. Alternative Lubrizon products to use in this formulation are **Carbopol® 974P NF, Ultrez 10 NF or 980 NF polymers**.

	Ingredient Name	Weight %
A	1. Sodium Fluoride, USP	0.24
	2. Sodium Tripolyphosphate	3.00
	3. Sodium Saccharin	0.30
	4. Sodium Benzoate	0.10
	5. Deionized Water	25.00
B	6. Xanthan Gum	0.75
	7. Carbopol® ETD 2020 NF Polymer	0.25
	8. Glycerin, USP	15.00
	9. Sorbitol (70%), USP	33.86
C	10. Zeodent® 165 Thickening Silica	2.50
	11. Zeodent® 113 Cleaning Silica	15.00
	12. Titanium Dioxide	0.50
	13. Polyethylene Glycol (PEG-8)	2.00
D	14. Sodium Lauryl Sulfate	0.80
	15. Peppermint Oil	0.70

Product Properties

Appearance	Smooth and creamy paste
pH	7.2
Viscosity (cP)**	202,000

**Helipath Brookfield Viscosity @ 5 rpm, Spindle E, measured at 1 week

Stability

- Stable for a minimum of 6 months when stored under the following ICH conditions:
 - Long term (25 ± 2°C / 60 ± 5% relative humidity)
 - Accelerated (40 ± 2°C / 75 ± 5% relative humidity)

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Procedure

1. Dissolve all of the sodium salts in deionized water (Part A).
2. Pre-wet xanthan gum and **Carbopol® ETD 2020 NF polymer** with glycerin. Hydrate with the 70% sorbitol solution. (Part B).
3. Add Part A ingredients to Part B ingredients and mix thoroughly.
4. Mix Part A+ Part B+ Part C ingredients in a Ross Mixer for 20 minutes with high agitation. Mix for an additional 20 minutes under vacuum with medium agitation.
5. Add Part D ingredients and mix under vacuum with low agitation until a smooth white paste is obtained.

Edition: December, 2009

For more information or to request product samples, please visit www.pharma.lubrizon.com or contact your nearest Lubrizon Advanced Materials location.

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