

**Natural Soft-Gel Toothpaste No. 634**

		<b>Wt. %</b>
<b>A</b>	<b>VANATURAL</b> <sup>®</sup> Bentonite Clay	1.00
	Water	16.60
	D-Xylitol NF FCC 30 - 80 mesh K <sup>1</sup>	10.00
<b>B</b>	Natural Calcium Carbonate (OMYA-CAL <sup>®</sup> FG-4 AZ <sup>2</sup> )	65.00
<b>C</b>	Glycerin (Superol <sup>®</sup> KPO Glycerin, USP/FCC/EP <sup>3</sup> )	5.00
	<b>VANZAN</b> <sup>®</sup> NF Xanthan Gum	0.50
<b>D</b>	Benzyl Alcohol NF Kosher (UNOL <sup>™</sup> BZAL <sup>1</sup> )	0.40
	Aqua (and) Sodium Lauroyl Sarcosinate (Crodasinic <sup>™</sup> LS 30 NT-LQ-(RB) <sup>4</sup> )	1.50

**Procedure:** Slowly add the **VANATURAL** while mixing at maximum available shear until fully hydrated. Then, add the xylitol and mix until fully dissolved. (Note: The batch will cool significantly after the xylitol addition.) Slowly add the calcium carbonate, Part B, and mix until thoroughly dispersed. In Part C, slurry the **VANZAN NF** and glycerin, add in and mix until thoroughly dissolved and batch is smooth. Then, add the benzyl alcohol and mix in. Next, while using appropriate mixing in order to avoid air entrapment, slowly add the sodium lauroyl sarcosinate solution and mix in completely.

**RAW MATERIAL SUPPLIERS**<sup>1</sup>Universal Preserv-A-Chem, Somerset, NJ<sup>2</sup>OMYA, Cincinnati, OH<sup>3</sup>P&G Chemicals, Cincinnati, OH<sup>4</sup>Croda, Inc., Edison, NJ**TRADEMARKS**

Registered and pending trademarks appearing printed in bold in these materials are those of Vanderbilt Minerals, LLC. For a complete listing, please visit

[http://www.vanderbiltminerals.com/ee\\_content/Documents/Technical/Trademarks\\_VM\\_Web.pdf](http://www.vanderbiltminerals.com/ee_content/Documents/Technical/Trademarks_VM_Web.pdf)

Crodasinic is a trademark of Croda, Inc.

OMYA-CAL is a registered trademark of OMYA AG Corporation.

Superol is a registered trademark of The Procter &amp; Gamble Company.

Unol is a trademark of Universal Preserv-A-Chem, Inc.

Rev10/26/2016