

**Baking Soda Toothpaste with Fluoride No. 635**

	<b>Wt. %</b>
<b>A</b>   <b>VEEGUM® D</b> Magnesium Aluminum Silicate	1.00
Water	17.66
<b>B</b>   Tetrasodium Pyrophosphate, Food Grade	1.00
<b>C</b>   Glycerin, USP	10.00
<b>VANZAN® NF</b> Xanthan Gum	0.40
<b>D</b>   Sodium Fluoride (Sodium Fluoride USP Powder <sup>1</sup> )	0.24
Water	2.80
<b>E</b>   Baking Soda (Sodium Bicarbonate USP Grade #1 Powder <sup>2</sup> )	65.00
Sodium Saccharin USP FCC PDR K (Unisweet™ SOSAC <sup>1</sup> )	0.20
Sodium Benzoate (Sodium Benzoate PDR NF FCC K <sup>1</sup> )	0.20
Sodium Lauryl Sulfate, 29% (Sulfochem® SLS Surfactant <sup>3</sup> )	1.50

**Procedure:** Slowly add the **VEEGUM® D** to the water while mixing at maximum available shear until fully hydrated. Add the TSP and mix until dissolved. Slurry the **VANZAN® NF** and glycerin and add Part C to the batch, mixing thoroughly until dissolved and batch is smooth. Dissolve the sodium fluoride in water and add Part D to the batch and mix in thoroughly. Slowly sift in the baking soda and mix until completely dispersed. Add the sodium saccharin and then sodium benzoate and mix well after each. While using appropriate mixing in order to avoid air entrapment, slowly add the sodium lauryl sulfate solution and mix in completely.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Universal Preserv-A-Chem, Somerset, NJ

<sup>2</sup>Natural Soda, Rifle, CO

<sup>3</sup>Lubrizol Advanced Materials, Inc., Cleveland, OH

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