



# TMM<sup>®</sup> NANO

## Chewing Gum & Breath Mints

Belle Aire Creations introduces the first all natural, sustained release, malodor technology

The developers of **Total Malodor Management<sup>®</sup> (TMM<sup>®</sup>)** have created a breakthrough technology that has been especially formulated for Oral Care, Chewing Gum and Breath Mints. This exclusive product line works by forming molecular complexes with the volatile sulfur compounds responsible for bad breath and is adsorbed onto nanoparticles to facilitate the sustained release of the **TMM<sup>®</sup>**. This proprietary process is branded as **TMM<sup>®</sup> NANO**.



Clean, fresh breath is very important in our everyday lives. **TMM<sup>®</sup> NANO** effectively neutralizes bad breath for an extended period of time with sustained release technology. Whether it's halitosis or morning breath, or whether it's garlic or onion breath, **TMM<sup>®</sup> NANO** was designed to render these malodorous molecules unperceivable.

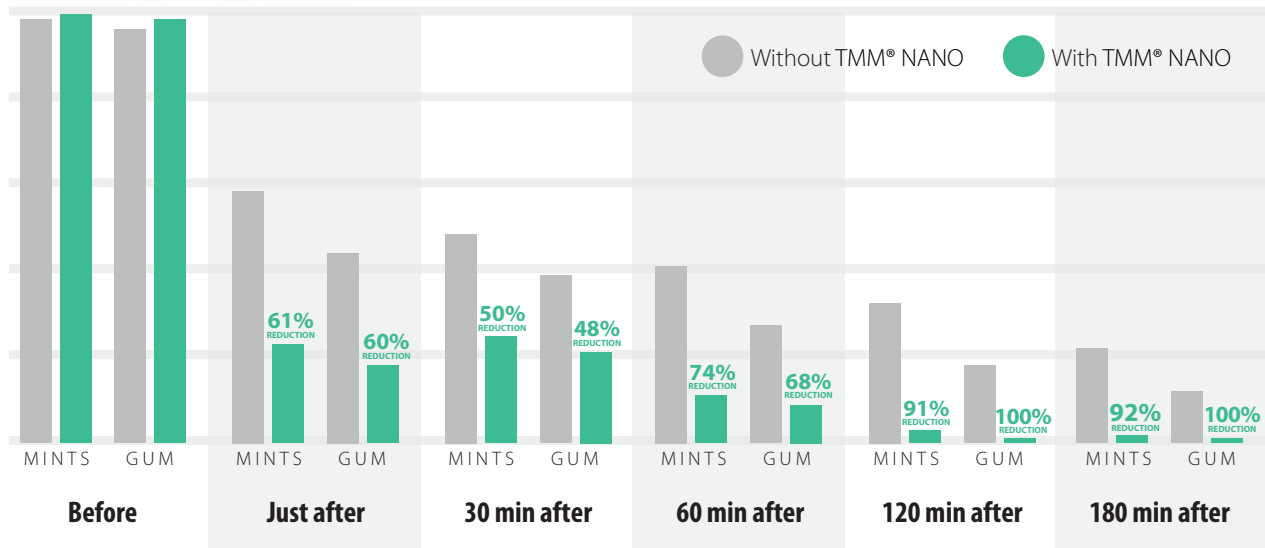
*Belle Aire*<sup>®</sup>  
CREATIONS

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## Sustained Protection Against Bad Breath

Garlic breath is a good model for all types of bad breath since garlic odor is strong and very unpleasant. The volatile sulfur compounds responsible for garlic breath are also representative of most other types of bad breath. The sensory chart below demonstrates sustained protection against garlic breath.



### Solid Phase Micro-Extraction (SPME)

#### Analysis of the Molecular Components of Garlic Odor

Saliva was collected and analyzed for the presence of allyl methyl sulfide and diallyl disulfide, the main components responsible for "garlic breath". The chart below demonstrates the decrease in the concentrations of both sulfur compounds in the headspace due to the presence of **TMM<sup>®</sup> NANO**.

