

MultiSal® Flavor (MS FL)

A targeted delivery system of a variety of flavors with intensified sensation and increased stability.



HOW THE TECHNOLOGY HELPS YOU

MultiSal® technology is a double-layered encapsulation system composed of a microsphere containing sub-micron spheres (Figure 1). The outer shell contains the flavor and protects from premature release. In the case of MS FL with cooling, once the shell is broken, the cooling sensation is released from the core.

UNIQUE FEATURES

- 1 TIME RELEASE** with a longer-lasting sensation.
- 2 WATER ACTIVATION** and release on-demand, allowing for optimal performance.
- 3 CUSTOMIZABLE PROPERTIES** including flavor choices and cooling abilities allowing for a truly unique sensory experience for the consumer.



MS FL raw



1 Pizza



2 Gum

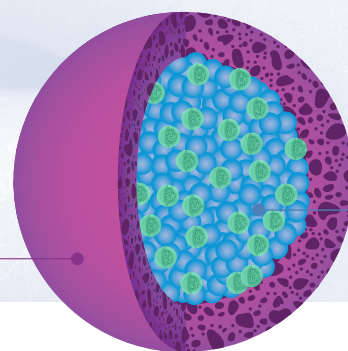


3 Ice cream

FORMULATION

Vanilla Mint Cooling Lip Balm

Ingredients	(W/W %)
MultiSal® Flavor with Cooling (Vanilla)	2.0
MultiSal® Flavor with Cooling (Peppermint)	0.20
MultiSal® Menthol	1.90
Lip Balm Base	95.78
Sucralose	0.12



Shell Flavor Core SalSphere® SalCool

Figure 1: Structure of MS FL with cooling.

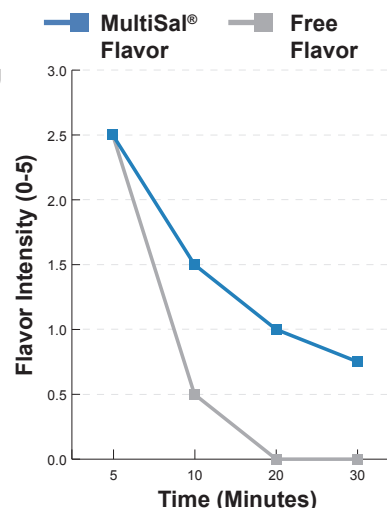


Figure 2: A study was done on flavor intensity, as determined by consumer perception. MS FL outperformed free, which had lost its intensity in just twenty minutes.

TECHNICAL DATA

Appearance @ 20°C	Free flowing powder
Applications	Lip products and more
Color	Off-white
Odor	Typical to flavor used
Shelf Life (months)	24
Storage (°C)	Closed container at 12-32° with <45% RH

*Standard flavors include watermelon, peppermint, vanilla, margarita lime, and tangerine, but additional flavors can be formulated upon request.