



**BIMAL PHARMA PVT. LTD .**  
**Mumbai, India.**

**Melt-down resistance in Ice Cream with 5% fat**

(Example of Ice Cream Formulation)

<b>Ingredients</b>	<b>%</b>
Palm Kernel, 30°C	5.00
Skim Milk Powder	7.00
Whey Powder	3.50
Sugar	13.00
Syrup	3.75
Vanilla Flavor	-
Color	0.15
Locust Bean Gum	0.15
Guar Gum	0.30
<b>Emulsifier*</b>	<b>0.30</b>
Water	Up to100

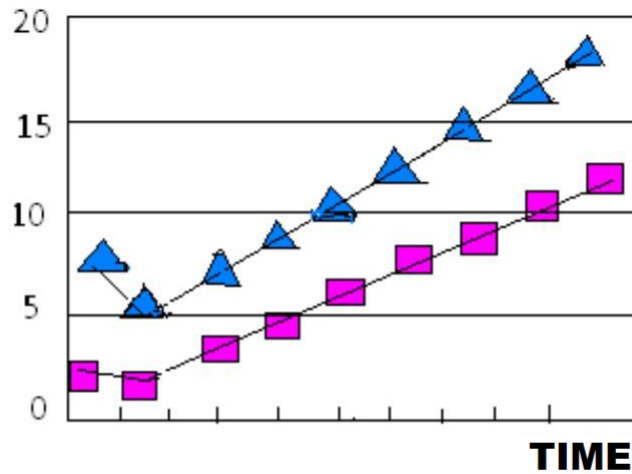
**Emulsifier\***: Mono-& Diglycerides ( GMS)

: or Emulsifier, TWEEN 80 POWDER

**Overrun**: 100%

**Drawing Temp**: -5°C

**MELT %**



—▲— **MONO & DI (GMS)**  
—■— **Emulsifier (TWEEN 80 POWDER)**



**Does not Melt**



**Melting Faster**

## Applications:

- Tween 80 Powder is recommended in Ice Cream and Milk Ice at dosage of 0.1 % to 0.25% based on total product.
- Tween 80 Powder provides,  
Excellent overrun & creamy Mouthfeel,  
Maximum Dryness and  
Melt-down resistance in Ice Cream.
- Tween 80 Powder gives excellent fresh texture in Milk Ice.
- The Ice cream with Tween 80 powder does not melt faster.
- In the Ice cream with 100% overrun, Tween 80 powder provide around more melt resistance than GMS or DMG at the same dosage of 0.3%.
- The Ice cream with GMS or DMG melts faster than the one with Tween 80 powder.