

# Product formulation

PH107CG

**SUGARLESS CHEWING-GUM TABLET CENTERS WITH  
NEOSORB® P 60 W SORBITOL, XYLISORB® 90 XYLITOL,  
PEARLITOL® 160C MANNITOL  
AND LYCASIN® 85/55 MALTITOL SOLUTION**  
*Peppermint flavour*

## FORMULA

|   | <b>% (by weight)</b> |
|---|----------------------|
| NEOSORB® P 60 W sorbitol                                    | 47.45                |
| Gum base, Cafosa Gum SA Barcelona (Spain)                   | 30.00                |
| LYCASIN® 85/55 maltitol solution (85 % DS)                  | 10.00                |
| XYLISORB® 90 xylitol  | 5.00                 |
| PEARLITOL® 160C mannitol                                    | 5.00                 |
| Mint flavouring: liquid ref 720251 H, Givaudan Roure S.A.   | 1.50                 |
| Menthol powder: Frescofort ref 60470-30, Givaudan Roure S.A | 0.50                 |
| Mint flavouring: powder ref 610698 H, Givaudan Roure S.A.   | 0.20                 |
| Aspartame   | 0.20                 |
| Glycerol  | 0.15                 |
| Active  | qs                   |

## METHOD

- Loading Procedure (min) - Z blade kneader at 45°C - 60 kg batch
  - 0 min: Introduce the melted gum base (stoved overnight at 50°C) and half of the NEOSORB® P 60 W sorbitol.
  - 3 min: Add the PEARLITOL® 160C mannitol and the XYLISORB® 90 xylitol.
  - 5 min: Add the LYCASIN® 85/55 maltitol solution.
  - 7 min: Add half of the NEOSORB® P 60 W sorbitol, aspartame and active.
  - 11 min: Add the glycerol.
  - 12 min: Add the mint flavouring powder and the menthol.
  - 14 min: Add the liquid mint flavouring
  - 16 min: Unload the kneader (gum paste at around 53°C). Divide the gum batch into approx 2 kg loaves. Store them at 20°C-50% RH for around one hour (loaves at around 43°C when reaching the extruder).
- Extrusion (Togum TO-E82)
  - Body of the extruder at 40°C
  - Head of the extruder at 42°C



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- Rolling : 4 pairs rollers - Scoring : 2 pairs rollers (Togum TO-W191)
  - Gum strip dusted with a blend 50/50 talcum/PEARLITOL® 160C mannitol
- Conditioning
  - Store the strip of not fully separated tablet centers at around 15°C-50% RH for around 48 hours before coating them.

## COMMENT

- The active is added at the propitious moments as a function of its physical and chemical properties.