

Product formulation

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CLEAR GEL TOOTHPASTE USING NEOSORB[®] 70/70 B SORBITOL SOLUTION (hydrated silica)

FORMULA

	% (by weight)
NEOSORB [®] 70/70 B sorbitol solution	64.00
Abrasive silica TIXOSIL [®] 73, Rhodia	14.00
Thickening silica TIXOSIL [®] 43, Rhodia	9.00
Purified water	5.68
Sodium lauryl sulfate (30 % DS), SIPON [®] LCSV95, Sidobre Sinnova	4.16
Colouring (1 % aqueous sol.)	0.50
Mint flavour	0.80
Sodium monofluorophosphate	0.76
Sodium carboxymethylcellulose, BLANOSE [®] 7MXF, Aqualon	0.70
Sodium saccharinate	0.20
Methyl paraben	0.18
Propyl paraben	0.02

METHOD

- Prepare solution A by dissolving the preservatives in water at 90°C.
- Prepare solution B by dispersing the sodium carboxymethylcellulose in the NEOSORB[®] 70/70 B sorbitol solution under conditions of vigorous agitation for 1 minutes.
- A is added to B and mixing is performed for 2 minutes. Then high intensity stirring is performed for 3 minutes.
- This mixture is allowed to stand for 30 minutes.
- Pour this solution into a vacuum-mixing vessel at 45°C.
- Add sodium saccharinate, sodium monofluorophosphate, flavouring and colouring and vacuum-mix for 5 minutes.
- Add half of the silicae and mix for 6 minutes.
- Add the second half of the silicae and mix for another 6 minutes.
- Finally, the sodium lauryl sulfate solution is added, followed by a final 1 minute 30 seconds of vacuum-mixing.