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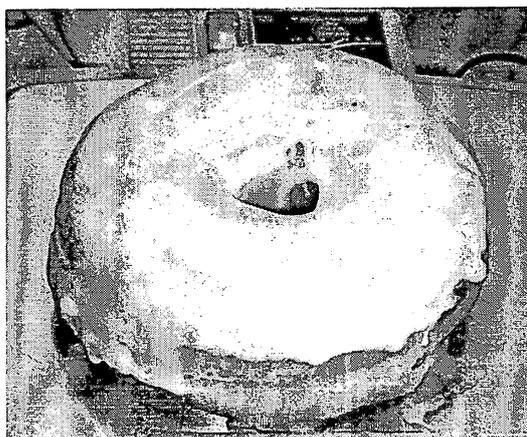
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(57) Abstract: This invention provides compositions for flat icings. The compositions comprises a gum system comprising Gum Arabic, carboxymethylcellulose and optionally, Gellan gum. The composition can be used as a flat icing for baked products such as doughnuts. Also provided is a method for using the composition as a flat icing and as a glaze.

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FAST SETTING ICING

This application claims priority to U.S. Provisional application no. 60/870,174, filed on December 15, 2006, the disclosure of which is incorporated herein by reference.

FIELD OF THE INVENTION

5 This invention relates generally to the area of icings for foods items and more particularly to an icing formulation which is easy to use and has quick-setting properties.

BACKGROUND OF THE INVENTION

Flat icings are commonly used on baked food items to provide a desirable appearance as well as taste and flavor. These icings are not airy or fluffy in texture.
10 Because these icings are typically applied after the product is baked and ready for consumption, the time needed to apply the icing as well as the time for it to set on the product is important - particularly in commercial settings.

Current icings on the market typically need to be warmed up and then applied to baked products such as doughnuts. For application at ambient temperatures, the current
15 icings need to be made less viscous. However, if the viscosity of the icing composition is reduced, the setting/drying time is observed to increase. For example, it takes at least about 45 minutes, and more typically, between 45 minutes to an hour for the current icings to dry/set. This can result in significant loss of time in a commercial establishment involved in preparation and/or distribution of icing-topped baked products.

20 Thus, there is a need in the food industry to develop formulations for easy to use fast setting icings.

SUMMARY OF THE INVENTION

The present invention provides compositions for flat icing. The icing composition is dippable at ambient temperatures (68-80⁰F) and sets in 15 minutes of less at ambient
25 temperature. The icing composition is shelf stable at ambient temperatures and can be stored at these temperatures for at least 8 months.

The icing composition comprises sweetener solids, fat, water and a gum system comprising carboxymethylcellulose (CMC), Gum Arabic and optionally, Gellan Gum. At

ambient temperatures, the composition can be used as flat icing on baked products. If heated, the composition can be used as a glaze.

5 According to a first aspect of the present invention, there is provided an icing composition comprising at least 70% sweetener solids, 7% to 12% water; 0.1 to 1.0% fat; 0.1% to 0.5% Gum Arabic and 0.1% to 0.5 % Carboxymethylcellulose (CMC), wherein the icing composition has a viscosity of 70,000 cpa to 90,000 cpa at ambient temperatures, is dippable at ambient temperature and when applied to a food product sets within 15 minutes at ambient temperature.

10 According to a second aspect of the present invention, there is provided a method of applying an icing composition to a baked product comprising the steps of:

- a) preparing an icing composition comprising at least 70% sweetener solids, 7% to 12% water; 0.1 to 1.0% fat; 0.1% to 0.5% Gum Arabic and 0.1% to 0.5 % Carboxymethylcellulose (CMC)
- b) dipping a baked product in the icing composition at ambient temperature
- c) allowing the icing to set on the baked product for up to 15 minutes.

15 Comprises/comprising and grammatical variations thereof when used in this specification are to be taken to specify the presence of stated features, integers, steps or components or groups thereof, but do not preclude the presence or addition of one or more

20 other features, integers, steps, components or groups thereof.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows the amount of icing needed to provide the desired opacity for a comparative composition and the present invention composition. Figure 1A and 1B shows doughnuts having comparative icing compositions comprising 0.057% Agar and 0.262% Gum Arabic in 14.2 gms (Figure 1A) and 22.4 gms (Figure 1B) of icing respectively. Figure 1C shows a doughnut having an icing of the present invention comprising 0.248% Gum Arabic; 0.437% CMC; 0.486% Gellan Gum in 14.0 gms of icing. All the doughnuts weighed about the same from 59-61 grams.

Figure 2 shows that the integrity of the icing is maintained for several days following application. Figure 2A shows the present invention icing (having a lemon flavor and comprising 0.248% Gum Arabic; 0.437% CMC; 0.486% Gellan Gum) on a doughnut after 2.5 days and after 1 week (Figure 2C) showing that the integrity is still maintained and Figure 2B shows a comparative composition (0.057% Agar, 0.262% Gum Arabic) on a doughnut after 2.5 days showing significant wrinkling of the icing.

Figure 3 shows that the present composition can also be used as a glaze. Following heating of the icing formulation comprising 0.248% Gum Arabic; 0.437% CMC; 0.486% Gellan Gum, a glaze can be seen to have formed for the present invention composition (Figure 3A). The same doughnut is shown after storage in a closed plastic container for 1 day (Figure 3B) and 2 days (Figure 3C). A glaze can also be seen for a comparative glaze composition (comprising 0.073% Agar; 0.058% CMC) (Figure 3D), but when stored in a closed plastic container for a day, the glaze can no longer be distinctly seen (Figure 3E)

DESCRIPTION OF THE INVENTION

The present invention provides a ready to use shelf stable icing which can be used as a flat icing as well as a glaze. The icing composition is dippable and exhibits quick drying characteristics at ambient temperature (68-80°F). In different embodiments, the icing is dippable and sets at 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79 and 80°F. In another embodiment, the icing is dippable and sets at 72-78°F. The icing composition is shelf stable at ambient temperatures and can be stored at these temperatures for at least 6 months. In one embodiment, the icing composition is shelf stable for at least 8 months.

The icing is particularly useful for doughnuts and can be applied by routine methods such as by dipping of the doughnuts into the icing. This icing when applied to doughnuts, sets within 15 minutes at ambient temperatures. The phrase "sets" is used herein to indicate

a state where it is dry to the touch but can still hold decorations such as sprinkles. Those skilled in the art will recognize that if the icing is too wet, it will not keep its integrity and if it is too dry, it will not be able to hold sprinkles or other decorations.

5 The icing composition comprises sweetener solids, such as fondant, sugar, and corn syrup solids; water; Gum Arabic; Carboxymethylcellulose; optionally - Gellan Gum; and fat. The icing composition can further comprise various additives such as colorants, flavoring agents and preservatives.

10 The composition of the icing comprises: at least 70% Solids (contributed by fondant, sugar, and corn syrup); 7% to 12% water; 0.1 to 1.0%, preferably 0.1% to 0.5% fat; 0.1% to 0.5%, preferably 0.1 to 0.3% Gum Arabic; 0.1 to 1.0%, preferably 0.1 to 0.5% Carboxymethylcellulose. In one embodiment, the icing composition also comprises Gellan Gum. If Gellan Gum is added, it should be in the range of 0.04% to 0.8%, preferably, 0.4 to 0.5% Gellan Gum. The viscosity of the composition is 70,000 centipoise to 90,000 centipoise at 70 to 76°F. It was found that the above combination of gums unexpectedly
15 produced an icing having the properties described herein.

The sweetener solids can be sugar (4.5 - 9.5%), fondant (75 - 80%) and corn syrup solids (1 - 3%). The fats of the icing composition are preferably hard fats. Such fats include palm oil, palm kernel oil, coconut oil, babassu oil and tucum oil or various fractions thereof. In a preferred embodiment, the fat is palm kernel oil. It is preferable to use fat in the form of
20 hard fat flakes.

In this invention, it was unexpectedly observed that by using two low strength gums, Gum Arabic and Carboxymethylcellulose the setting time for the icing was considerably reduced. The CMC is preferably of low viscosity (such as 25-30 centipoise) Consequently, the icing of the present invention sets in 15 minutes or less depending on the amount of
25 icing used. In one embodiment, about 1 oz of the present icing is used per doughnut (regular doughnut, typically 1.8 to 2 oz) and in another embodiment, between half to one oz of the icing is used. The opacity achieved by the icing of the present invention is greater than that of currently available icings. For example, it was observed that even half an ounce of this icing has the opacity comparable to 1 oz of current icings after dipping of doughnuts
30 into the icings. Therefore, by using the icing of the present invention, the amount needed per doughnut can be reduced. Thus for iced doughnuts, the reduced amount needed per doughnut will result in cost savings (because of needing less amounts of materials) and time

savings (because of the quicker setting time), as well as healthier foods (because of reduced caloric value of the icing per doughnut).

In one embodiment, the icing comprises a combination of 3 gums – Gum Arabic, carboxymethyl cellulose (CMC) and Gellan Gum. In another embodiment, the gum system has only two gums (Gum Arabic and CMC) and no other gum. In another embodiment, the icing composition has only three gums (Gum Arabic, CMC and Gellan Gum) and no other gum. In another embodiment, the gum system consists essentially of two gums - CMC and Gum Arabic and in another embodiment, the gum system consists essentially of three gums - Gum Arabic, CMC and Gellan gum. While the use of only two gums – Gum Arabic and CMC – is required for the composition to exhibit a setting time of about 15 minutes, the addition of Gellan gum improves texture characteristics and reduces the setting time to less than 15 minutes. In one embodiment, the setting time for icing compositions when Gellan gum was also included was 10 minutes or less, generally 8-10 minutes.

This invention will provide an advantage in the preparation/distribution of doughnuts as these doughnuts can be stacked on top of each other in 15 minutes or less and the doughnuts at the bottom still retain icing integrity due to setting quickly. In one embodiment, the integrity of the stacked doughnuts is maintained for at least 1 hour. This reduces the problem of the icing of the bottom doughnuts partly disappearing when the doughnuts are stored and/or distributed in a stack. In the unstacked format, the doughnuts can be stored at 30°C (86°F) at 65% humidity for at least 12 hours and in one embodiment, they can be stacked for at least 18 hours.

The icing composition of the present invention can be used in icing of doughnuts in fast food establishments. For example, the composition can be heated to 100 to 125°F so that it can be applied to doughnuts via commercial mechanical apparatus which typically require the icing compositions to be heated to these temperatures. It was observed that this icing compositions could withstand heating to temperatures of 150°F and could be easily applied to doughnuts using the commercial equipment.

The present composition can be used for icing applications, i.e. for flat icing applications. When warmed to a temperature of 175 to 200°F, the present composition becomes thinner and then can be used as a transparent glaze on baked product such as doughnuts. Some of the characteristics of the present composition are presented below:

- a. Dippable at ambient temperatures (68°F to 80°F).
- b. For a regular doughnut (1.8 to 2.0 oz) about half an ounce of icing (from 13 to 15 gms) delivers the required opacity typical for flat icing application.
- 5 c. The icing sets in 15 minutes or less at ambient temperatures.
- d. Quick drying which makes fully finished iced donuts to be stackable for an hour in a paper bag and still retains icing integrity
- e. Ability to sit on the shelf under the fluorescent light set up at 1.5 ft. above the iced donuts for more than 8 hours or until the life of the donuts without melting.
- 10 f. Ability to withstand more than 8 hours in a cardboard box or until the life of the donuts
- g. The composition is shelf stable (and dippable) at ambient temperatures for up to 8 months.

15 The icing composition of the present invention can also be used at higher temperatures. When the icing is heated to 175 to 200°F, it performs like a glaze. The performance of the glaze was better than that of current glazing compositions. When compared to a currently available glaze (comprising 0.073% Agar; 0.058% CMC), it was observed that the composition of the present invention retained the glaze after 24 hours in a
20 plastic cover (clam shell packaging format) and even 2 days while the currently available glaze cause the doughnut to become soggy - likely due to moisture migration from the donut into the dissolved sugar crystal.

The method of making the present invention is as follows: The solids are mixed and blended. The gums are then added in and then corn syrup is added. Then the fat is added.
25 The mixture is blended and heated to homogenously mix and is then cooled to desired temperature.

In various embodiments, different flavors can be added to the composition. For example, the flavors added include, but are not limited to Lemon, Caramel, Hazelnut, Chocolate, Strawberry, Maple, peanut and non-allergenic peanut.

EXAMPLE 1

The following formulation was used to prepare the icing with or without Gellan Gum

Table 1

INGREDIENT	Without Gellan Gum		With Gellan Gum	
	Amt in pounds	Percent	Amt in pounds	Percent
WATER	157.40	7.59%	157.40	7.59%
CITRIC ACID	0.70	0.034%	0.70	0.034%
SUGAR (Granular)	190.00	9.164%	190.00	9.159%
SALT -FLOUR	2.30	0.111%	2.30	0.111%
GUM ARABIC	5.10	0.246%	5.10	0.246%
CMC (low viscosity)	9.10	0.439%	9.10	0.439%
GELLAN GUM	0.0	0.0	1.00	0.048%
HIGH FRUCTOSE CORN SYRUP	32.00	1.543%	32.00	1.543%
FONDANT	1650.00	79.579%	1650.00	79.541%
SODIUM BENZOATE	2.00	0.096%	2.00	0.096%
POTASSIUM SORBATE, Granular	2.00	0.096%	2.00	0.096%
HARD FAT FLAKES	7.00	0.338%	7.00	0.337%
MONO & DIGLYCRDS	1.80	0.087%	1.80	0.087%
CORN SYRUP	10.00	0.482%	10.00	0.482%
Titanium Dioxide	4.00	0.193%	4.00	0.193%
TOTAL		100.000%		100.000%
	2073.40		2074.40	

5

The sweetener ingredients are mixed. The gums are mixed separately and then Corn syrup is added. Then the fat is added. The mix is heated to make a proper blend.

EXAMPLE 2

10 Tables 2 and 3 provide comparative compositions. Table 4 provides setting time for the comparative compositions. It was observed that when the icing compositions were made with the gum combinations shown in Table 2 and applied to doughnuts, the icing set in 15 minutes. However, the compositions were not shelf stable and thickened over time during storage and it became harder to dip the donuts after storage (such as after 2 hours of storage). Further, Table 3 shows icing compositions with Gums such that doughnuts were

15

dippable at room temperature but the icing did not set within 15 minutes. Table 4 further provides performance characteristics and setting time for various gum combinations.

Table 2

5

	%	%	%	%	%	%
Gum combinations	# 1	# 2	# 3	# 4	# 5	# 6
Gum Arabic	0.510	0.418	0.386	0.36	0.186	0.186
Agar	0.083	0.046	0.046	0.046	0.046	0.0
CMC7LF	0.090	0.070	0.0697	0.0697	0.0697	0.186
Gellan Gum	0.460	0.460	0.65	0.465	0.65	0.2

Table 3

	%	%	%
Gum combinations	# 1	# 2	# 3
Gum Arabic	0.093	0.418	0.35
Agar	0.0465	0.0	0.0
CMC7LF	0.0697	0.139	0.0697
Gellan Gum	0.465	0.465	0.279

10

Table 4

Gum combination	Texture Characteristics	Surface Dry Time
0.057% Agar; 0.262% Gum Arabic	Dippable - No heat needed	45 minutes
0.045% Agar; 0.205% Gum Arabic	Dippable - No heat needed	50 minutes
0.061% Agar	Dippable - No heat needed	47 minutes
0.083% Agar; 0.506% Gum Arabic	Dippable - No heat needed	45 minutes
0.045% Agar; 0.214% Gum Arabic	Dippable - No heat needed	50 minutes
0.099% Agar, 0.071% CMC	Difficult to dip with donut	40 minutes
0.09% Agar, 0.013% Locust Bean Gum	Needs heat to be dippable	40 minutes
0.078% Agar, 0.062% CMC	Dippable	45 minutes
Fast Setting Caramel Icing - 0.244% Gum Arabic, 0.436% CMC7LF, 0.048% Gellan Gum	Dippable – No heat needed	8 to 10 minutes
Fast Setting Lemon Icing 0.243% Gum Arabic, 0.424% CMC7LF, 0.048% Gellan Gum	Dippable – No heat needed	9 minutes
Fast Setting Lemon Icing - 0.248% Gum Arabic, 0.437% CMC7LF, 0.0486% Gellan Gum	Dippable – No heat needed	8 minutes

EXAMPLE 3

5 This examples provides gum combinations of the present invention. These combinations produced icing formulations which set in 15 minutes or less and could be used for dipping doughnuts. The compositions of the present invention are shelf stable and can be stored (covered) at ambient temperatures for at least 8 months. In contrast, the icing compositions in Table 2, were not shelf stable and thickened over time (even when stored

10 covered for a 2 hour storage period) and therefore required heating prior to use following storage.

Table 5

	# 1	# 2	# 3	# 4	# 5	# 6	# 7
Gum Combinations (Dippable and set in 15 minutes)							
Gum Arabic	0.200	0.228	0.243	0.270	0.300	0.300	0.200
CMC7LF	0.200	0.228	0.243	0.270	0.250	0.500	0.500
Gum Combinations (Dippable and set in 10 minutes)	# 1	# 2	# 3	# 4	# 5	# 6	# 7
Gum Arabic	0.217	0.244	0.247	0.243	0.244	0.246	0.242
CMC7LF	0.217	0.436	0.435	0.243	0.244	0.246	0.242
Gellan Gum	0.043	0.048	0.048	0.048	0.049	0.05	0.047
Gum Combinations (Dippable and set in 10 minutes)	# 8	# 9	# 10	# 11			
Gum Arabic	0.241	0.243	0.243	0.243			
CMC7LF	0.241	0.424	0.460	0.428			
Gellan Gum	0.047	0.048	0.048	0.048			

EXAMPLE 4

This example describes the performance of icing composition of the present invention and a comparative composition. For the composition of the present invention, the gum combination was 0.248% Gum Arabic; 0.437% CMC; 0.486% Gellan Gum. For the comparative example, the gum combination was 0.057% Agar and 0.262% Gum Arabic. As shown in Figure 1A, for the comparative composition, application of about half ounce of the composition (14.4 grams) did not result in the opacity to cover the entire upper surface of the doughnut; it took more than one and a half times that amount as shown in Figure 1B. However, for the icing composition of the present invention, half an ounce was sufficient to provide opacity such that the entire upper surface was covered resulting in a desirable appearance (Figure 1C).

EXAMPLE 5

This example describes the performance of the icing composition of the present invention and a comparative composition with respect to integrity of the applied icing. As shown in Figure 2B, for the comparative composition, the icing was seen to be significantly wrinkled after 2.5 days, whereas the icing of the present invention (Figure 2A) maintained its integrity after 2.5 days (Figure 2A) and also after 1 week (Figure 2C).

EXAMPLE 6

This example describes the application of the present composition as a glaze. For this application, the composition was warmed up to 175°F and then applied to the doughnut. As shown in figure 3A, a shiny glaze is formed on the doughnut (Figure 3A). If this doughnut is then stored in a covered plastic container (clam shell format), the glaze can still be seen after 1 day (Figure 3B) and after 2 days (Figure 3C). However, for a comparative glaze composition (Figure 3D), after 1 day in the clam shell format, the glaze cannot be observed and appears to have blended into the doughnut (Figure 3E).

While this invention has been described by providing specific examples, routine modifications will be apparent to those skilled in the art, which routine modifications are intended to be within the scope of the invention.

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. An icing composition comprising at least 70% sweetener solids, 7% to 12% water; 0.1 to 1.0% fat; 0.1% to 0.5% Gum Arabic and 0.1% to 0.5 % Carboxymethylcellulose (CMC), wherein the icing composition has a viscosity of 70,000 cpa to 90,000 cpa at ambient temperatures, is dippable at ambient temperature and when applied to a food product sets within 15 minutes at ambient temperature.
2. The icing composition of claim 1, wherein the sweetener solids comprise sugar, fondant and corn syrup .
3. The icing composition of claim 1, wherein the fat is 0.1 to 0.5%.
4. The icing composition of claim 3, wherein the fat is palm kernel oil.
5. The icing composition of claim 1, wherein the Gum Arabic is 0.1 to 0.3%.
6. The icing composition of claim 1, wherein the CMC is 0.1 to 0.3%.
7. The icing composition of claim 6, wherein the CMC is of low viscosity.
8. The icing composition of claim 1, further comprising 0.4 to 0.8% Gellan Gum.
9. The icing composition of claim 8, wherein the Gellan Gum is 0.4 to 0.5%.
10. The icing composition of claim 9, wherein the Gum Arabic is 0.1 to 0.3%.
11. The icing composition of claim 10, wherein the CMC is 0.1 to 0.3%.
12. A method of applying an icing composition to a baked product comprising the steps of:
 - a) preparing an icing composition comprising at least 70% sweetener solids, 7% to 12% water; 0.1 to 1.0% fat; 0.1% to 0.5% Gum Arabic and 0.1% to 0.5 % Carboxymethylcellulose (CMC)

- b) dipping a baked product in the icing composition at ambient temperature
 - c) allowing the icing to set on the baked product for up to 15 minutes.
13. The method of claim 12, wherein the icing composition further comprises 0.4 to 0.8% Gellan Gum.
- 5 14. The method of claim 13, wherein the step of allowing the icing to set on the baked product is carried out for up to 10 minutes.
15. The method of claim 12, wherein the baked product is a doughnut.
16. The method of claim 15, wherein the doughnut is dipped in the icing composition at 72 to 78F.
- 10 17. A method of applying a glaze to a baked product comprising the steps of:
- a) preparing an composition comprising at least 70% sweetener solids, 7% to 12% water; 0.1 to 1.0% fat; 0.1% to 0.5% Gum Arabic and 0.1% to 0.5 % Carboxymethylcellulose (CMC);
 - b) heating the composition to 175 to 200⁰F to obtain a clear glaze liquid;
 - 15 c) dipping a baked product in the clear glaze liquid of b)
 - d) allowing the clear glaze liquid to set.
18. The method of claim 17, wherein the composition further comprises 0.4 to 0.8% Gellan Gum.
19. The method of claim 17, wherein the composition comprises 0.1 to 0.3% Gum
20 Arabic and .1 to 0.3% CMC.
20. The method of claim 17, wherein the fat is 0.1 to 0.5% palm kernel oil.

RICH PRODUCTS CORPORATION

WATERMARK PATENT AND TRADE MARKS ATTORNEYS

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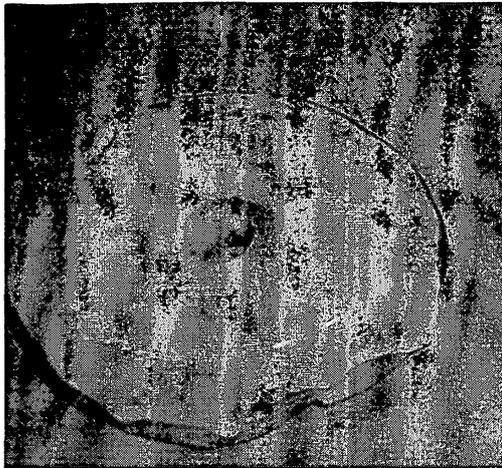


Figure 1A



Figure 1B

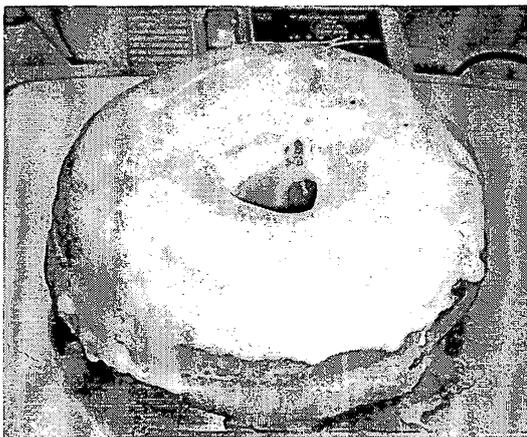


Figure 1C

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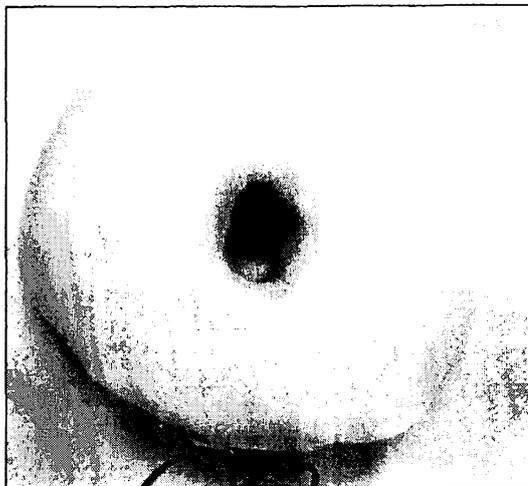


Figure 2A



Figure 2B

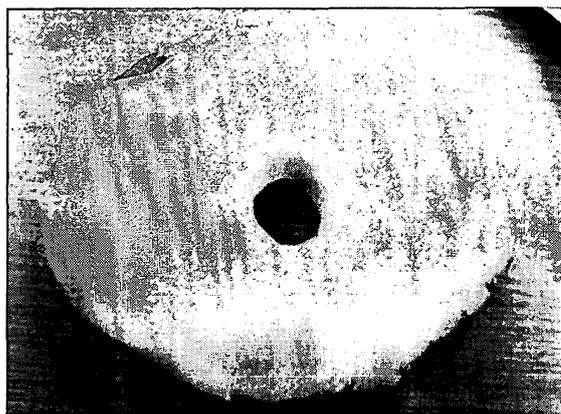


Figure 2C



Figure 3C

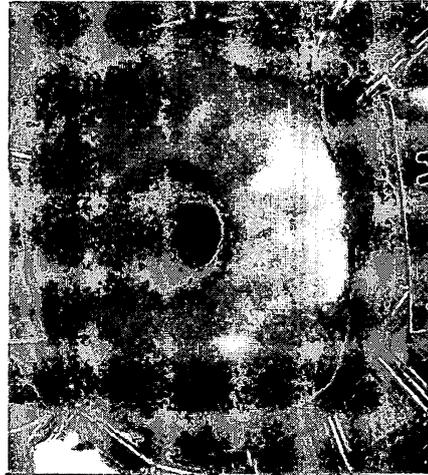


Figure 3B



Figure 3A

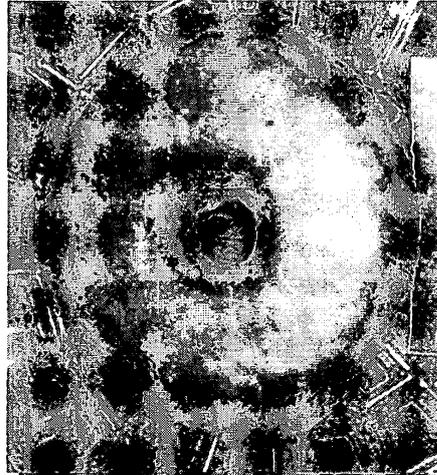


Figure 3E



Figure 3D