

INGREDIENTS USED IN CAKE

- **FLOUR**
- SUGAR
- **EGGS**
- LEAVENING AGENTS
- COCO POWDER
- BUTTER
- SHORTENING
- FLAVOURING



STRENGTHENING AGENTS / TOUGHENING AGENTS

- THESE ARE THE AGENTS WHICH PROVIDE STRUCTURE TO THE CAKE.
- THE STRENGTHENING AGENTS HELP THE CAKE TO RETAIN ITS SHAPE AND STRUCTURE
- FLOUR AND EGGS ARE EXAMPLE OF STREGTHENING AGENTS.

WEAKENING AGENTS/TENDERISERS

- THESE AGENTS HELPS IN MAKING THE CAKE SOFTER.
- WEAKENING AGENTS ARE SUGAR, BAKING POWDER AND BAKING SODA AND BUTTER.
- EXCESS OF THESE AGENTS CAN LEAD TO COLLAPSING OF CAKE.

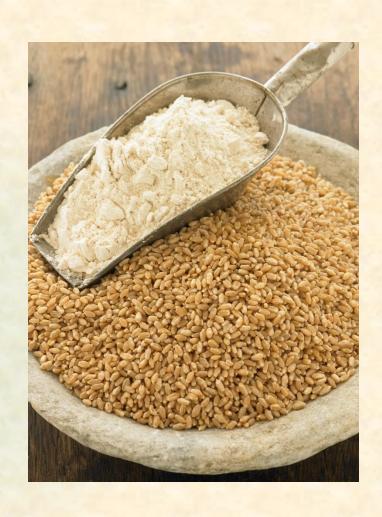
STRENGTHENING AGENTS

- Flour and eggs provides the supporting structure and helps to retain shape and size.
- Flour contains starch which gelatinizes and stabilize the structure.
- These ingredients are also called tougheners

WEAKENING AGENTS

- Fat , sugar and leavening agents tenderize the structure .
- Excess of any ingredients can collapse the cake.
- These ingredients are also called tenderizers

FLOUR



CAKE FLOUR

- Cake flour is made from finely milled soft winterwheat.
- It is high in starch and low in gluten.
- It has 7-8% gluten
- Cake flour is used in America. In India we use all purpose flour.
- To make cake flour-1 cup all purpose flour – 1tbsp. All purpose flour+ 1 tbsp. cornflour.
- Cake flour is chlorinated that means it is treated with chlorine gas.



CHLORINATION AND ITS USES

- Flour is treated with chlorine gas.
- It gives finer crumbs to the flour.
- Helps to absorb more moisture.
- Helps to provide better structure.
- Prevents cake from collapsing.

EGGS



EGGS

- Eggs give the structure and helps into air incorporation in the batter.
- It constitutes cake's liquid.
- Always use room temperature eggs as it helps in producing strong foam and providing stability.
- Also prevents the batter from curdling.
- AVERAGE WEIGHT OF AN EGG IS 45-50 gm.
- Egg white-30 gm
- Egg yolk- 18- 20 gm
- Adding extra egg yolks in cakes lead to dense and heavy cakes.



SUGAR



SUGAR

- Sugar contributes flavor.
- It gives color.
- Helps in air incorporation.
- Mostly we use caster sugar because the caster sugar has sharp edges which helps in air entrapping.
- Icing sugar consists of 3 % starch which avoids caking. Icing sugar is mostly used for icings like buttercream.



BUTTER

- Butter or fat tenderizes and aerates the cake.
- It prevents from excessive gluten formation by coating some of the gluten forming proteins in flour.
- The more the fat, the heavier will be the sponge.



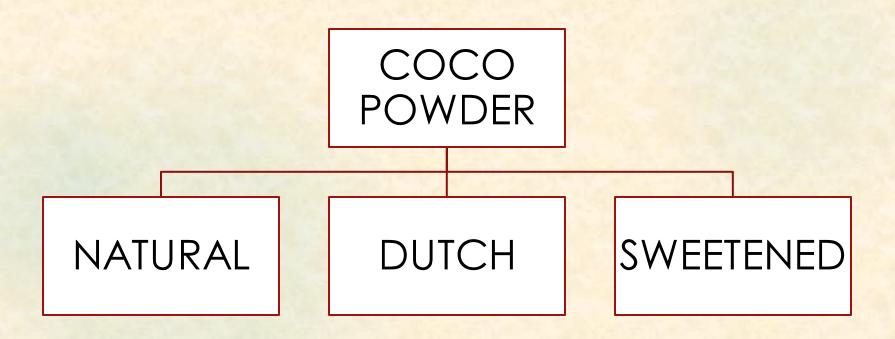
SHORTENING

- Cheaper form of butter.
- It contains 100% fat.
- Made from vegetable oils
- Used by low budget bakeries as replacement of butter.
- We get different types of shortening in market likecookie shortening, puff shortening etc.
- It is not advisible to use

COCO POWDER



TYPES OF COCO POWDER



COCO POWDER



ROLE OF COCOA POWDER

- Cocoa powder provides intense chocolate flavor. It has toughening effect on cake structure.
- Unsweetened natural cocoa powder is acidic in nature and reacts with baking soda. Whereas Dutch- processed cocoa powder is alkaline darker in color and reacts with baking powder.
- Coco powder dries out the cake so to compensate the liquid ingredients are high.
- Natural coco powder is acidic in nature that is why leavening agents are high.

BAKING SODA

- Also known as soda bicarbonate.
- It decomposes above 80 C.
- Reacts with acidic ingredients like natural cocoa powder, vinegaretc.
- Reacts once. Reaction produces CO₂ that causes rise in cakes.



BAKING POWDER

- Baking powder is a mixture of baking soda ,dry acid(cream of tartar) and cornfour.
- It is neutral in nature.
- Reacts twice. At the time of mixing wet and dry ingredients and second at the time of baking. That means it reacts with moisture and heat.
- Its lighter version of baking soda and can't be interchanged



SALT

The only function of salt in cake is to heighten flavor. Without it the cake would have flat taste

<u>LIQUID</u>

For yellow or white butter cakes milk is preferred and water is usually preferred for chocolate butter cakes.

FLAVOURINGS

- ESSENCE- synthetic (i.e. chemically produced) vanilla flavouring and is cheaper than the natural extract.
- EXTRACT- a natural product made by soaking vanilla pods in a mixture of ethyl alcohol and water
- PUREES
- **JAMS**
- COMPOTES
- FRUIT JUICES
- COFFEE

FAULTS IN CAKE

M FAULT

The cake sinks in the middle and doesn't rise.

Reasons can be:-

- > too much raising agents.
- >Oven too cold.
- >Too much sugar.
- > very weak flour.



X FAULT

Cake rise unevenly, corners sink and unfinished look from top. Reason can be:->Uneven baking temperature. >Uneven dispersion of



>Too much liquid

raising agents.

NOT ENOUGH VOLUME

Due to less aeration in cake batter, results in dense product. Reason can be:-

- > eggs not whisked.
- ➤ Too much dry ingredients.
- > Oven

temperature too



CRACKED TOP

Undesired appearance in few cakes. Reason can be:-

oven temperature too high at initial stages.

Less quantity of raising agents



SUGARY TOP

Dark colored spots on the top of cake. Reasons can be:
> Use of granulated sugar.

> Sugar doesn't dissolve, lack of

Too much sugar in the recipe.

moisture.



CURDLING OF BATTER

Occurs when making batter.
Reasons can be:>Ingredients are at cold temperatures.
>Eggs/liquids added too quickly.



IMPORTANT POINTS

- Sieve all the dry ingredients to aerate and remove impurities.
- Weigh and measure ingredients correctly.
- Prepared batter will collapse if left too long before baking.
- To check for 'doneness', press lightly on the surface. It should spring back or can insert a clean skewer.
- Allow the cakes to stand in the moulds and take out once cooled.
- For storage always keep it covered in dry cool place either in refrigerator or freeze.