



Bakeries & Foodservice Technical Training Manual



Baker's Plus® Cake Mix



Bakers Plus® Cake Mix Handling Instructions

Preparation:

- Adjust water temperature to produce a batter temperature of 72°-74°F.
- Use the Water Calculation chart in this manual to calculate temperature/ Or follow the water temperature guide on back of the package.

Mix:

- Mixing is the most critical step in the process of cake production.
- Bakers Plus[®] is designed for a 3 stage mix process.
- This assures the proper mixing of all ingredients to produce the absolute best cake possible.

Large Batch

- (4 speed mixer, 80 qt bowl)
- Cake mix: 50 lbs
- Water: 33 lbs
- Vegetable Oil: 6 lbs

Stage 1:

- Add Mix to bowl.
- Slowly add 12 lbs of water over 1 minute period (2nd speed).
- Mix additional 2 minutes in low speed (2nd).

Stage 2:

- Add 11 lbs of water slowly over 1 minute period.
- Scrape bowl very well.
- Mix additional 2 minutes in 3rd speed.

Stage 3:

- Add 10 lbs of water and 6 lbs of oil slowly over 1 minute period.
- Scrape bowl very well.
- Mix an additional 2 minutes in 2nd speed.

Note: It is **very important** to scrape down the bowl in between stages. This will help with proper mixing of all ingredients and achieves the nice tight cell structure!





Bakers Plus® Cake Mix Handling Instructions

Specific Gravity:

Specific Gravity is the ratio between a given volume of cake batter and the weight of the same volume of water. It tells us how much air has been incorporated into the batter. Achieve a specific gravity between .80% and .90%

Bake:

	Conventional Oven	Rack Oven	Convection Oven
Temperature:	360°F	330°F	300°F
Bake Time: 8"	25-28 minutes	22-25 minutes	22-25 minutes
Bake Time: Full Sheets	35-40 minute	45-50 minutes	40-45 minutes

- For rack oven baking you may reduce the vegetable oil by 50% to prevent excessive shrinkage.
- Touch top of cake to check bake.
- Remove from oven when the top is resilient to the touch and springs back.
- Cool at least 30 minutes before de-panning.

Trouble Shooting:

Please refer to chart attached for troubleshooting hints.

Attributes:

- Superior moist cake
- Nice tight cell structure
- Excellent shelf life
- Tolerant to freezing
- "The Benchmark Mix in the Industry"





Formula to Achieve Proper Temperature of Bakers Plus® Cake Mix

			_	_
		Δ	П	П
-	_	_	ч	ч

Temperature of Room

Temperature of Cake Mix

Friction Factor (2 – 5 degrees)

Total _____

2. Multiply

Desired Batter Temperature x 3

3. Subtract

Total from point 2 _____ Minus the Total from point 1 _____ -

4. Answer Equals _____

Temperature of water required to achieve proper batter temperature

Example: Temp of room 78

Temp of mix 76
Friction (est.) 4

Total 158

Desired Temperature (75) x 3 = 225

Difference: Subtract 158 from 225 = 67

Use 67° water temperature when mixing batter. This will achieve a 75°F batter.





Bakers Plus® Cake Mix Water Temperatures

Water Temperature Chart for 74°F Batter

					TEN	MPER	ATUF	RE OF	MIX	(°F)			
		90	86	82	78	74)	70	66	62	58	54	50	46
	90	42	46	50	54	58	62	66	70	74	78	82	86
	88	44	48	52	56	60	64	68	72	76	80	84	88
<u>(</u>	86	46	50	54	58	62	66	70	74	78	82	86	90
(°)	84	48	52	56	60	64	68	72	76	80	84	88	92
00	82	50	54	58	62	66	70	74	78	82	86	90	94
)F R	80	52	56	60	64	68	72	76	80	84	88	92	96
RE (78	54	58	62	66	70	74	78	82	86	90	94	98
TEMPERATURE OF ROOM (°F)	76)	56	60	64	68	72	76	80	84	88	92	96	100
ER/	74	58	62	66	70	74	78	82	86	90	94	98	102
EMI	72	60	64	68	72	76	80	84	88	92	96	100	104
Τ	70	62	66	70	74	78	82	86	90	94	98	102	106
	68	64	68	72	76	80	84	88	92	96	100	104	108
	66	66	70	74	78	82	86	90	94	98	102	106	110

EXAMPLE: To achieve a 74°F Batter Temperature, if Room Temperature is 76°F and Mix Temperature is 74°F, follow their respective rows across and down the chart until they meet. This will indicate the temperature of water to use...in this example 72°F. Ice water may be used where necessary.





Bakers Plus® Cake Mix Troubleshooting Chart

					/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
					//	//	//	//	/	//	//	//	//	/8		//	he or of or	the	ve5	//	/_	//	nheal niting
			net of	dagh water le	, go	nigh /		siled Swenter	ori	ng loo k	sake tim	\230	ort	deep deep p	700	Astred S	186 of 0	ven 3	22115	dose los	ether Par	is mor	heat in heat
	Ale	True	And end	idh le	IN ST.	Over-ini	Sinder S	dec	in let	Julian Suetracia	ied in	eing	per 100	deer	ONE IN	e los s	ans dir	How	in Pans	dose los	25574	2000	n he ring
PROBLEM	37/	(00)	Jol /	Balle	Shar	2/2/	Stign	24E, C	2/6/	24E1/2	Sale C	04/0	ans	256/ 5	32KC/2	Mark C	24E1/7	arit / 2	ans/C	24°C/	} \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ub, (100/
Low volume	•	•	•	•	•	•	•	•						•							•	•	
Fallen cake/poor symmetry	•	•		•				•	•	•			•			•					•	•	
Sticky top crust	•							•		•	•	•											
Pale top crust	•							•					•										
Cracked top crust	•						•	•						•		•				•			
Peaked cakes	•				•		•									•				•			
Uneven cakes		•													•	•	•						
Uneven baking															•		•	•	•				
Shrinkage	•				•	•	•							•					•	•			
Soggy/doughy	•						a	•		•	•		•										
Tunnels and holes	•	•		•			•													•	•	•	
Dry, crumbly	٥						0	•						•									٥
Uneven grain			•	•			•	•													•	•	
Hard edges							0							0						0			

= Angel Food, Creme Cakes, Layer and Sheet Cakes

☐ = Brownies





Cakes Made With Pillsbury® Bakers Plus® Cake Mix

Bakers Plus Spice Cake

Small Batch		Large Batch
	1st Stage	
10 lbs	Bakers Plus Yellow Cake Mix	50 lbs
2 lbs 4 oz	Water	12 lbs 4 oz
	2nd Stage	
2 lbs 3 oz	Water	11 lbs
	3rd Stage	
2 lbs	Water	10 lbs
9½ oz	Vegetable Oil	3 lbs
2 oz	Spice Mix	10 oz

Spice Blend Mix

Small Batch	1	Large Batch
10 oz	Cinnamon	1 lb 4 oz
2 oz	Ground Cloves	4 oz
2 oz	Nutmeg	4 oz
2 oz	Ginger	4 oz
2 oz	All Spice	4 oz

- Place all spices in a plastic bag and shake until mixed
- 2 oz of spice mix to 20# of batter





Bakers Plus® Cake Mix Product Variations

Bakers Plus Apple & Spice Cake

Small Batch		Large Batch
	1st Stage	
10 lbs	Bakers Plus Yellow Cake Mix	50 lbs
2 lbs 7 oz	Water	12 lbs 4 oz
	2nd Stage	
2 lbs 3 oz	Apple Sauce	11 lbs
	3rd Stage	
2 lbs	Water	10 lbs
9½ oz	Vegetable Oil	3 lbs
1½ oz	Spice Mix	71/2 oz

Bakers Plus Carrot Cake

Small Batch		Large Batch
	1st Stage	
10 lbs	Bakers Plus Yellow Cake Mix	50 lbs
2 lbs 7 oz	Water	12 lbs 4 oz
	2nd Stage	
2 lbs	Water	10 lbs
	3rd Stage	
2 lbs	Water	10 lbs
9½ oz	Vegetable Oil	3 lbs
1 lb 12 oz	Ground Carrots	8 lbs 12 oz
12 oz	Ground Walnuts	3 lbs 12 oz
1 oz	Spice Mix	5 oz





Bakers Plus® Cake Mix Product Variations

Bakers Plus Piña Colada Cake

Small Batch		Large Batch
	1st Stage	_
10 lbs	Bakers Plus Yellow Cake Mix	50 lbs
2 lbs 7 oz	Water	12 lbs 4 oz
	2nd Stage	
2 lbs 3 oz	Water	11 lbs
	3rd Stage	
2 lbs	Crushed Pineapple	10 lbs
9½ oz	Vegetable Oil	3 lbs
1 oz	Rum Flavor	5 oz
2 oz	Pineapple Concentrate	10 oz

Bakers Plus Banana Walnut Cake

Small Batch		Large Batch
	1st Stage	_
10 lbs	Bakers Plus Yellow Cake Mix	50 lbs
2 lbs 7 oz	Water	12 lbs 4 oz
	2nd Stage	
2 lbs 3 oz	Water	11 lbs
	3rd Stage	
2 lbs	Ripe Bananas	10 lbs
9½ oz	Vegetable Oil	3 lbs
9 oz	Chopped Walnuts	3 lbs
3 oz	Banana Icing Fruit	15 oz





Bakers Plus® Cake Mix Product Variations

Bakers Plus Cherry Cake

Small Batch		Large Batch
	1st Stage	_
10 lbs	Bakers Plus Yellow Cake Mix	50 lbs
2 lbs 7 oz	Water	12 lbs 4 oz
	2nd Stage	
2 lbs 3 oz	Water	11 lbs
	3rd Stage	
2 lbs	Water	10 lbs
9½ oz	Vegetable Oil	6 lbs
1 lb	Cherry Icing Fruit	5 lbs

Bakers Plus Orange Cake

Small Batch		Large Batch
	1st Stage	_
10 lbs	Bakers Plus Yellow Cake Mix	50 lbs
2 lbs 7 oz	Water	12 lbs 4 oz
	2nd Stage	
2 lbs 3 oz	Water	11 lbs
	3rd Stage	
2 lbs	Water	10 lbs
9½ oz	Vegetable Oil	6 lbs
1 lbs	Orange Icing Fruit	5 lbs





Bakers Plus® Cake Mix Product Variations

Bakers Plus French Apple Cake		
Small Batch		Large Batch
	1st Stage	
10 lbs	Bakers Plus Yellow Cake Mix	50 lbs
2 lbs 7 oz	Water	12 lbs 4 oz
	2nd Stage	
2 lbs 3 oz	Water	1 lbs
	3rd Stage	
2 lbs	Water	10 lbs
9½ oz	Vegetable Oil	6 lbs
2 oz	Spice Mix	10 oz
1 lb	Apples Water pack	5 lbs
1 lb	Raisins (soaked & drained)	5 lbs
1 lb	Chopped Walnuts	
Bakers Plus R	ed Velvet Cake	
Small Batch		Large Batch
	1st Stage	
5 lbs	Bakers Plus Yellow Cake Mix	25 lbs
5 lbs	Bakers Plus Devils Food Cake Mix	25 lbs
2 lbs	Buttermilk	12 lbs 4 oz
1/4 OZ	Red color	1 oz
	2nd Stage	
2 lbs 3 oz	Water	11 lbs
	3rd Stage	
2 lbs	Water	10 lbs



 $9\frac{1}{2}$ oz

Vegetable Oil

6 lbs