

## List all ingredients and weight in grams

**K-STATE** Research and Extension

Conversion to grams from cups or tablespoons can be found at kingarthurbaking.com/learn/ingredient-weight-chart

Ingredients	Weight in Grams
Line 1: Tota	al weight
Line 2: Weight of sugar (fro	om above)
Line 3: Weight of sugar (in Line 2) divided by Total weight	(in Line 1)
Line 4: Multiply Line 3 by 100 for the %	6 of sugar %

Is Line 4 higher than 65%? YES or No

#### If Yes, this recipe is considered safe to be stored at room temperature.

### Example: Simple Buttercream Frosting

Ingredients		Weight in Grams
2 cups unsalted butter		454
8 cups powdered sugar		960
1/2 teaspoon salt		3
<sup>1</sup> ⁄ <sub>4</sub> cup heavy cream		59
2 teaspoons vanilla extract		8
	Total weight	1,484
	4=0/	

% sugar: (960/1,484) × 100 = 65%

This frosting meets the minimum requirement of 65% sugar and considered safe at room temperature.



# **Common Frosting and Filling Ingredients**

Ingredient	Household Measure	Grams
Brown sugar	1 cup	213
Butter or margarine	8 tablespoons (½ cup)	113
Coconut cream	1 cup	284
Corn syrup	1 cup	312
Cream, milk, half and half	1 cup	227
Espresso powder	1 tablespoon	7
Evaporated milk	½ cup	113
Granulated sugar	1 cup	198
Lemon juice, lime juice, orange juice	1 tablespoon	14
Peanut butter	½ cup	135
Powdered sugar	2 cups	227
Semi-sweet chocolate chips	1 cup	170
Unsweetend chocolate bars	2 pieces	14
Unsweetend cocoa powder	½ cup	42
Vanilla extract or other flavored extract	1 tablespoon	14
Vegetable shortening	¼ cup	46
Water	1 cup	227

More ingredients can be found at *kingarthurbaking.com/learn/ingredient-weight-chart* 

# More information and resources are available in "Food Safety of Frosting and Fillings," available at <u>https://bookstore.ksre.ksu.edu/pubs/MF3544.pdf</u>



Brand names appearing in this publication are for product identification purposes only. No endorsement is intended, nor is criticism implied of similar products not mentioned.

Publications from Kansas State University are available at bookstore.ksre.ksu.edu

Date shown is that of publication or last revision. Contents of this publication may be freely reproduced for educational purposes. All other rights reserved. In each case, credit 4-H Youth Development, *Frostings and Fillings Worksheet*, Kansas State University, June 2024.

#### Kansas State University Agricultural Experiment Station and Cooperative Extension Service

K-State Research and Extension is an equal opportunity provider and employer. Issued in furtherance of Cooperative Extension Work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Director of K-State Research and Extension, Kansas State University, County Extension Councils, Extension Districts.