



Buttered Rum Coffee Beverage: Ticaloid PRO 122 RD

When stabilizing coffee beverages, processing is a key factor for formulators to consider as it effects packaging, ease of production and other factors.

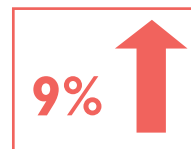
Ticaloid PRO 122 RD is a hydrocolloid blend uniquely created for retort processing, both rotational and static. This optimized blend withstands the harsh conditions in a retort process while contributing to stability and texture of the end beverage.

Ticaloid PRO 122 RD addresses the common formulation hurdles in the shelf stable coffee beverage category:

- Emulsion stability
- Coffee, cocoa or spice sedimentation
- Texture

With Ticaloid PRO 122 RD, formulators are able to achieve suspension, emulsification and added texture in retort coffee beverages applications and deliver an enjoyable drinking experience.

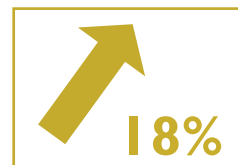
Consumer Clean Trends:



RTD Iced Coffee launches in the US have seen a compounded annual growth rate (CAGR) of 9% from 2013-2018¹



45% of all ice coffee launches had a retort style packaging (glass or metal/aluminum)¹



Retort style packaging in RTD coffee launches has increased in use by an 18% CAGR from 2013-2018³

¹ Innova Market Insights

Buttered Rum Coffee Beverage: Ticaloid® PRO 122 RD

Ingredients	%
2% milk	66.80
Water	21.65
Granulated Sugar	5.00
Coffee Extract	5.00
Ticaloid PRO 122 RD	1.15
Natural Flavor	0.20
Disodium Phosphate	0.10
Sodium Citrate	0.05
Sodium Chloride	0.05
Total	100.00

Procedure:

1. Add disodium phosphate, sodium citrate, and sodium chloride to water and mix for 5 minutes.
2. Add coffee extract to Step 1 slurry and mix for 5 minutes at 600 rpm.
3. Hydrate Ticaloid PRO 122 RD in 2% milk separately from water for 10 minutes.
4. Add Ticaloid PRO 122 RD/milk slurry from Step 3 to the Step 1 slurry.
5. Add granulated sugar and flavor, and mix for 2 minutes.
6. High shear mix for 1 minute at 7500 rpm using Silverson high shear mixer.
7. Indirect UHT process: preheat 65°C, main heat 140°C for 3 seconds, homogenize upstream at 2000/500 psi.
8. Collect cold into sterile bottles and store in refrigerator.

Nutrition Facts

servings for container	
Serving Size	(312g)
Amount per Serving	
Calories	180
% Daily Value*	
Total Fat 4g	5%
Saturated Fat 2.5g	13%
Trans Fat 0g	
Cholesterol 15mg	5%
Sodium 310mg	13%
Total Carbohydrate 31g	11%
Dietary Fiber 1g	4%
Total Sugars 26g	
Includes 16g Added Sugars	32%
Protein 7g	
Vitamin D 3mcg	15%
Calcium 266mg	20%
Iron 0mg	0%
Potassium 458mg	10%

*The % Daily Value tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

Label Declaration:

Skim Milk, Water, Coffee Extract, Sugar, Cornstarch, Acacia, Natural Flavor, Disodium Phosphate, Salt, Sodium Citrate, Gellan Gum

Contains Milk.

