

Technical Service Bulletin

NATIONAL[®] M1

NATIONAL M1 is a tapioca maltodextrin derived from tapioca starch. It is very bland in taste and non-hygroscopic which makes it suitable for various applications.

Physical Properties:

Colour	White to off-white
Form	Powder
Moisture	Approximately 5%
pH	Approximately 4.5

Features and Benefits:

NATIONAL M1 is a free flowing powder, which can be dispersed with cold water and contributes viscosity and body. Because of its high solubility, NATIONAL M1 can be used in food systems requiring little or no heat. NATIONAL M1 is ideally suitable as a bulking agent in spray-dried flavors or seasonings.

Applications:

NATIONAL M1 is recommended for use in baked goods, rehydration/ energy beverages, confectionery, peanut butter, and spray-dried flavors or seasoning.

Baked Goods: NATIONAL M1 is of special interest to cookies, cakes and muffins to stabilise moisture and moderate texture.

Rehydration/ Energy Beverage:

NATIONAL M1 provides excellent caloric density without exceeding osmotic balance. This is important in formulating rehydration/ energy beverages to provide a low residue carbohydrate source.

Confectionery: NATIONAL M1 is used as the sole agent to control sugar bloom and moderate stickiness in hard boil candy.

Peanut Butter: NATIONAL M1 can be added to peanut butter to improve body, provide smooth and creamy mouthfeel without grittiness.

Spray Dried Flavors/ Seasoning:

NATIONAL M1 can be used as an effective carrier for spray-dried products. Final powders are free flowing and are readily reconstituted in water.

Label Declaration:

Tapioca Maltodextrin

\$2.00 / kg FIS, GST excl. < 1mt 10+S
21/01/08

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guaranty of their accuracy is made. In every case we urge and recommend that purchasers, before using any product in full-scale production, make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operating conditions. No representative of ours has any authority to waive or change the foregoing provisions but, subject to these provisions, our engineers are available to assist with product queries and technical support. Nothing contained herein shall be construed to imply the non-existence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of this patent.