

stablefizz™ effervescent granulation base

a more convenient effervescent system[§]

Effervescent technology is an appealing and versatile delivery system for supplements. It can increase the rate and extent of absorption of actives due to its ability to dissolve quickly, completely and uniformly. For the consumer, effervescence provides a pleasant sensory experience over traditional tablets. In tablet or sachet form, effervescent granulations are convenient and portable. Once reconstituted, they are an easy-to-swallow delivery system.

However, manufacturing effervescent products present several challenges. They require a dedicated and specialized facility with extremely low humidity processing conditions and specialized packaging for final commercial products. This requires expensive equipment and packaging components. There is also the risk of batch failure due to early, unwanted reaction of the formulation.

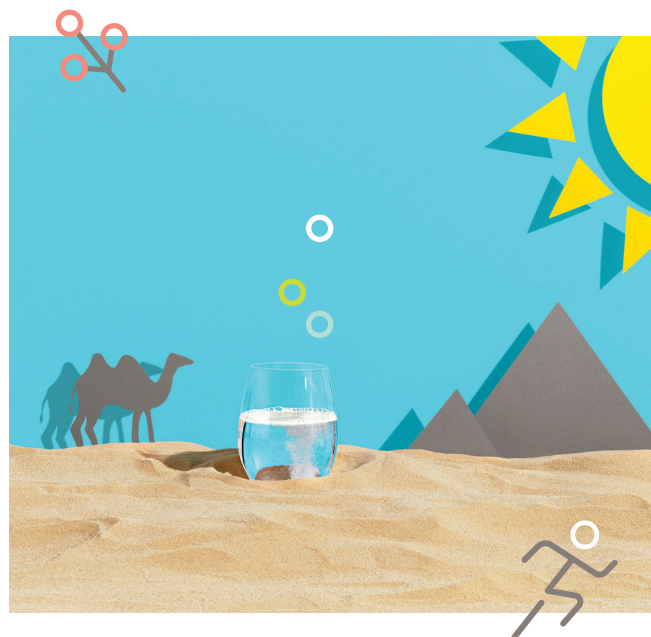
StableFizz™ base provides a stabilized effervescent granulation system without the headaches of conventional effervescent technologies. You can avoid specialized equipment, high processing expenses and formulation instability. In addition, StableFizz™ base eliminates the need for specialized retail packaging such as foil liners or desiccant tubes. StableFizz™ base is easy to use and is versatile enough to work in different dosage forms such as tablets, sachets or powdered beverages in canisters.

key features and benefits

- highly compressible, one step, easy to use
- simple handling and measuring for exact doses
- dissolves quickly and completely
- specialized, dehumidified manufacturing environment not required
- special retail packaging not required

* These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

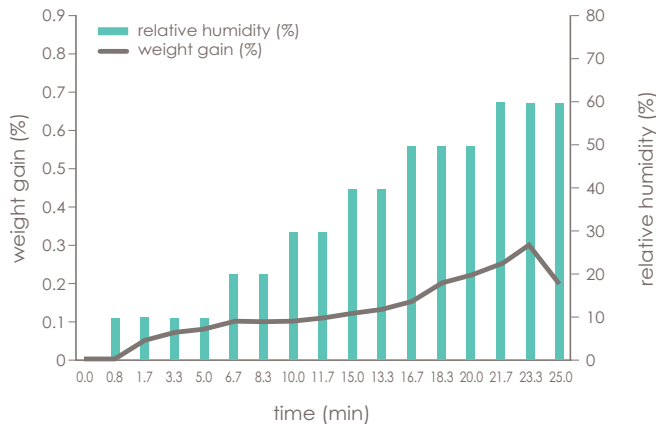
[§]versus traditional effervescent manufacturing systems



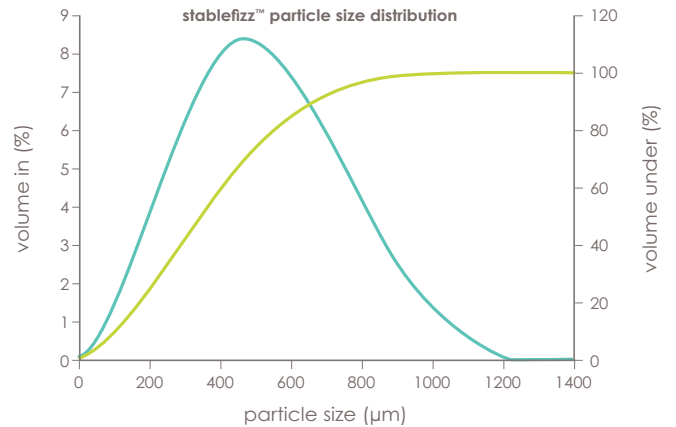
product description

StableFizz™ base is a ready-to-use effervescent granulation. The base components are coated by a patent-pending protective film barrier to prevent premature reaction. This barrier slows down moisture absorption to prevent any self-propagation between the acid and carbonate until the time of intended use. This means that StableFizz™ product doesn't require special low humidity environments for storage or manufacturing.

stable in high humidity environments



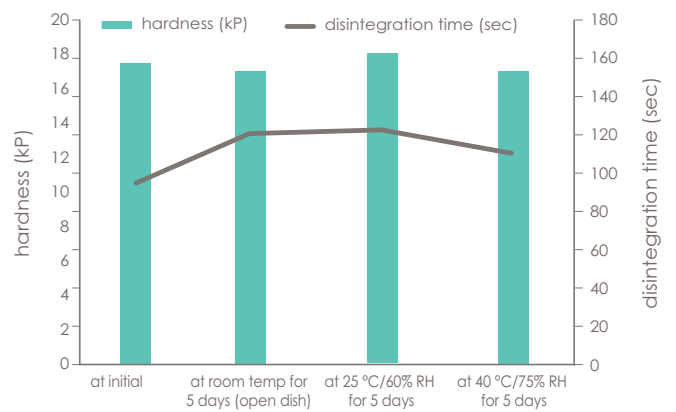
uniform particle size



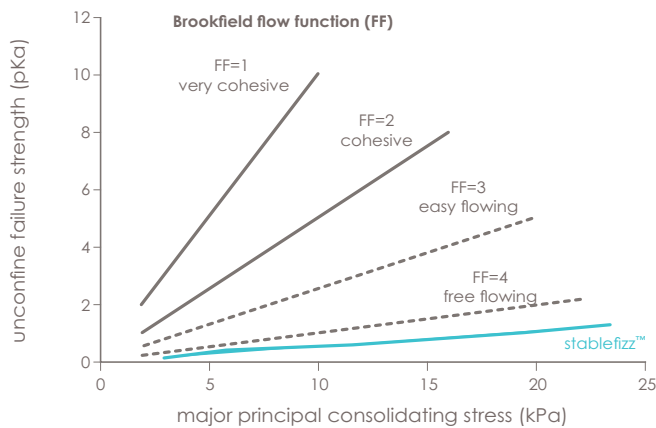
water activity stablefizz™ base vs. control (untreated) ingredients

storage conditions	water activity stablefizz™	water activity uncoated
initial	.501	.552
room temp for 5 days (open dish)	.529	.617
25% humidity/60 °C for 5 days	.472	.696
40% humidity/75 °C for 5 days	.492	.705

constant hardness and disintegration time over a range of temperature and humidity levels



excellent powder flow



sample formulation

ingredient	tablet weight (mg)
nordiccherry® tart cherry extract	558.5
stablefizz™ effervescent base	1842.5
tasteva stevia sweetener	62.5
flavor	25.0
avocado oil	12.5
total	2500.0

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