

Advantose[®] FS95

Directly Compressible Fructose



Fructose has a very desirable sweetness and a natural food orientation; however, it is not directly compressible and has poor dissolution properties. Advantose FS95 is a directly compressible codried system of fructose and a small amount of starch. This combination makes an excellent excipient for pharmaceutical, nutraceutical and chewable vitamin applications.

Advantose FS95 is specially designed for pharmaceutical direct compression tableting applications. The major attributes include excellent flow and good compressibility. The tablets hold their shape well and are easily chewable.

Co-Processing Improves Flow Properties

The particle size distribution of Advantose FS95 fructose significantly improves the flow properties.

The FS95 product has a lower hygroscopicity than standard fructose, making it easier to handle.

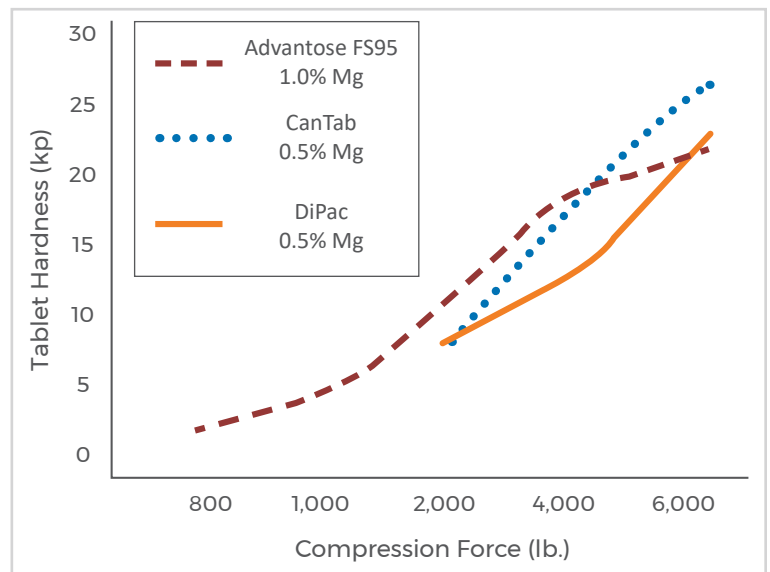
Table 1: Advantose FS95 Flow Properties

	Angle of Repose	Flow Time (sec.)
Advantose FS95 DC Fructose	12°	2.5
Dipac Compressible Sucrose	15°	1.9
Avicel PH102 Microcrystalline Cellulose	15°	Required tapping to flow

Compressibility is Excellent

Compressibility with Advantose FS95 is excellent, creating firm tablets that chew well and hold their shape. Due to its reduced friability, FS95 allows complex tablet designs such as those in children's chewable vitamins. As the graph shows, Advantose FS95 outperforms competing systems, even with 0.5% mg stearate lubricant.

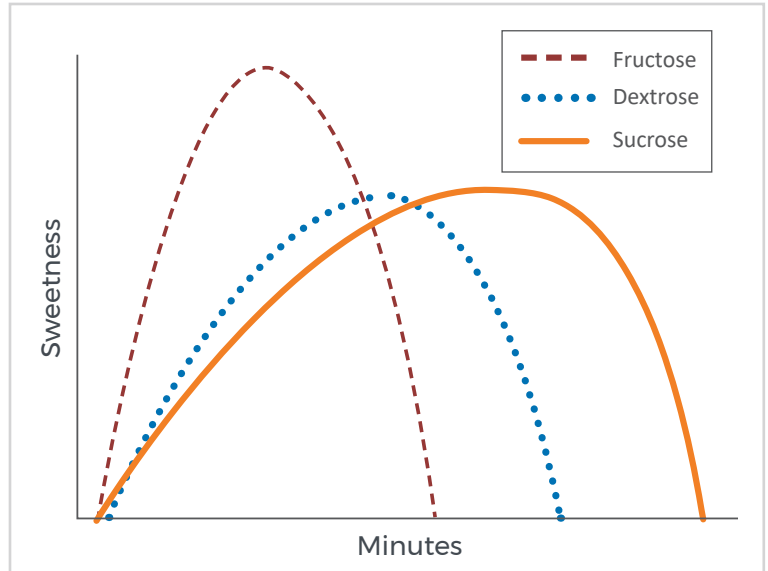
Figure 1. Advantose FS95 Fructose Improves Tablet Hardness Compression Profile (5/8, 1.25-1.5 g Tablets)



Advantose FS95 Fructose Enhances Chewable Tablets

Advantose FS95 can be used to mask undesirable flavors of tablet components because it is 20% sweeter than sucrose and almost twice as soluble. It has the added benefit of being listed as a naturally occurring fruit sugar on the label.

Figure 2. Fructose Provides Superior Sweetness



Making a Difference in Patient Experience

Advantose FS95 is designed for flow and improves it for low density ingredients. It is stable during processing, boasting improved friability and low hygroscopicity. It has a pleasant sweetness that masks undesirable tastes. Suitable for Pharma, Nutra and Food formulations, Advantose FS95 Fructose is good for complex tablet designs and lends itself to the clean label market.

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