

Advantol® 300

Fast Melt Delivery System

SPI Pharma's Advantol® platform uses proprietary co-processing technology. It can be used to develop a soft chew or a fast melt solid dosage form. These unique and convenient forms are economical and well suited to nutraceuticals and nutritional products. Advantol is a robust, off-the-shelf excipient system that allows the formulator fast product development. In addition, Advantol requires no special manufacturing equipment or tooling. Simply add the active to Advantol, dry blend and compress.

Why Easy to Swallow?

- Ease of administration to patients who have difficulty swallowing tablets
- Increased patient compliance
- Convenience
- Portable



Using Advantol 300 Dry Blend and Direct Compression

Formulations containing Advantol 300 are easily manufactured by direct compression. The active(s) are blended with flavors, sweeteners, color, etc. The mixture is blended with Advantol 300 for a specified mixing time. The lubricant is then added in the final step and blended for a minimum of five minutes. To demonstrate the versatility of Advantol 300, placebo and formulated tablets were prepared and tested for hardness friability and disintegration.

Advantol 300 flows well in the tableting process and did not exhibit significant weight variation. Advantol 300 had a suitable Angle of Repose, and has a mean particle size of 90-120 microns, therefore, segregation of finer APIs and content uniformity issues will be minimized.

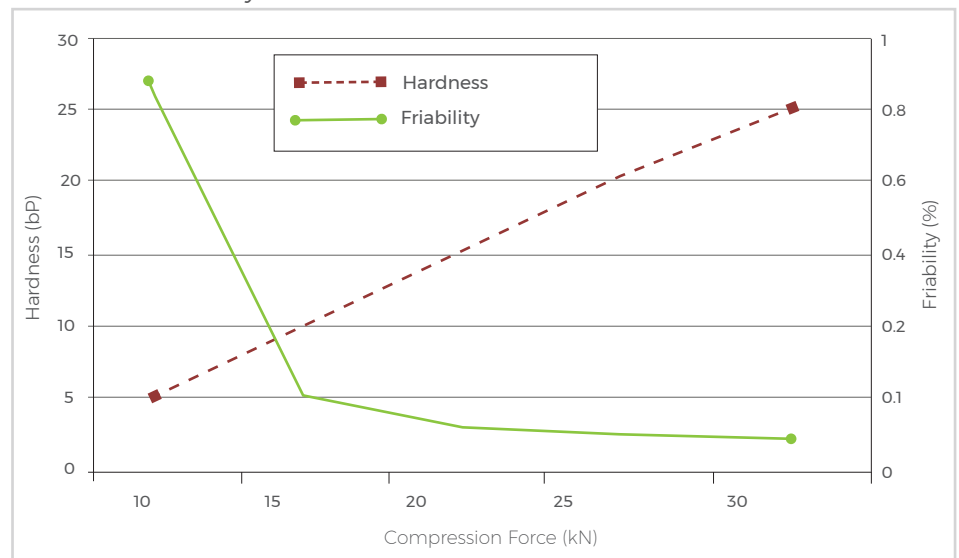
Robust Tablets

Advantol 300 provides for extremely low friability, even at relatively low compression forces. Providing the structural integrity necessary for further processing.

Dose Flexibility

Advantol 300 exhibits a steady increase in hardness as compression force is increased, a characteristic of robust diluents. This material offers the formulator an excellent carrier for a range of dose levels.

Figure 1: For example, a relatively large tablet (1000mg, 0.65" diameter) has a friability below 1%, when compressed at 10kN. At higher compression forces (>25kN), the same tablet exhibits friability of less than 0.1%



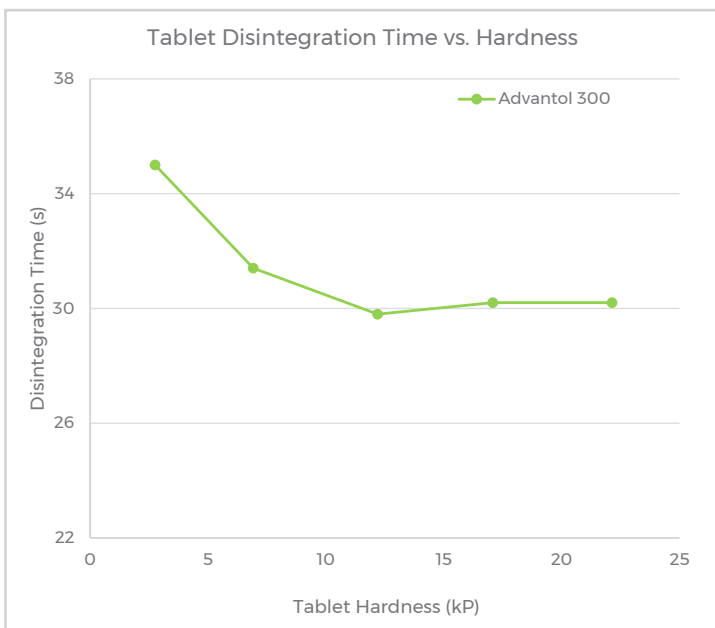
Disintegration Time

Tablets manufactured with Advantol 300 provide for quick disintegration, relatively independent of compression force.

Value of Advantol 300

High compaction, low friability, and rapid disintegration in one easy-to-use, directly-compressible excipient system. The ease of manufacture, functionality, and superior organoleptic properties of Advantol 300 make it a natural choice for quick dissolve and soft chew nutraceutical applications.

Figure 2: A 1000mg tablet with a hardness of 25kP disintegrates in just over 30 seconds (test conducted according to USP/EP disintegration)



Benefits of Advantol 300

- Smooth mouthfeel
- Quick disintegration
- Tablets manufactured using standard tooling
- Produced under cGMP with USP excipients
- High API loading in a small tablet
- Highly compactible
- Cost effective

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