

# Compressol® SM

## Co-Processed Polyol



Compressol® SM is a co-processed pharmaceutical excipient specifically designed for direct compression of high active dose and difficult to compress formulations.

Compressol SM combines the functional benefits of mannitol and sorbitol into a highly functional tablet excipient. The coprocessed system provides the superior compactibility of sorbitol, while retaining lower hygroscopicity, disintegration time and improved organoleptic properties of mannitol.

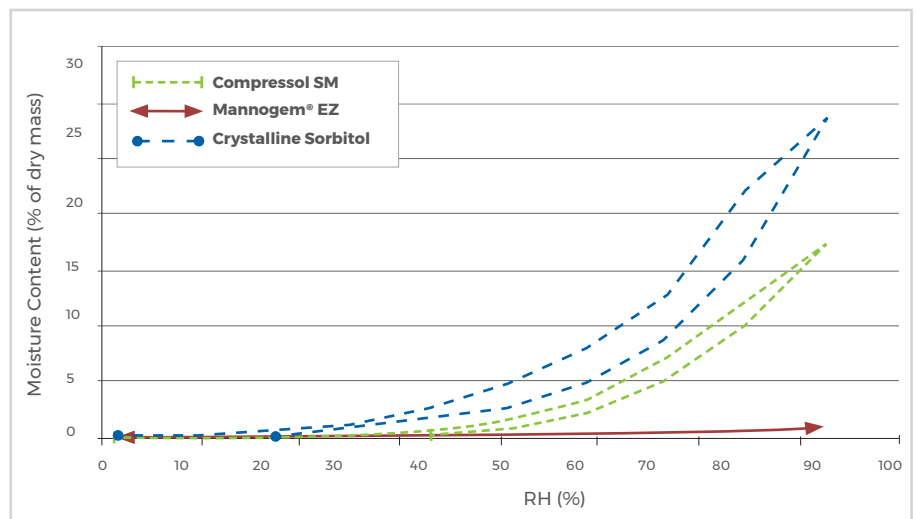
The versatility of Compressol SM makes it an excellent binder in direct compression tablet formulations and works well in swallow chewable and effervescent tablets.

### Hygroscopicity

The main advantage to using Compressol SM is that it is 300% less hygroscopic than sorbitol. This is very important since hygroscopicity can cause poor powder flow, caking, and sticking during tableting.

Hygroscopicity can impact the physical characteristics of tablets such as hardness, dissolution and bioavailability. Due to its low hygroscopicity, Compressol SM is suitable for moisture-sensitive actives.

Figure 1: Equilibrium Moisture Contents on a Dry Mass Basis for Powdered Samples

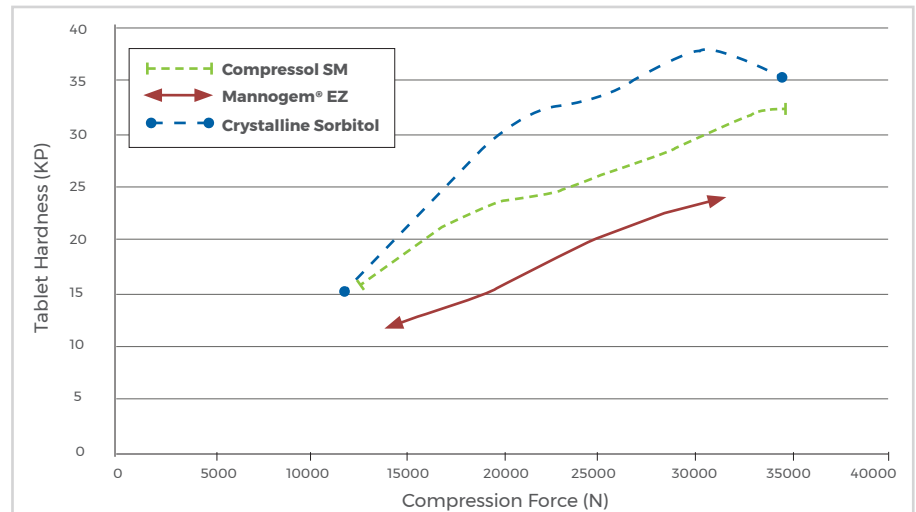


### Compactibility

Compressol SM is as compressible as sorbitol with a similar ejection force, so that less lubrication is required and the life of the tooling used is prolonged.



Figure 2: Tablets compressed on Minipress II @ 22 rpm with 0.625" FFBE tooling



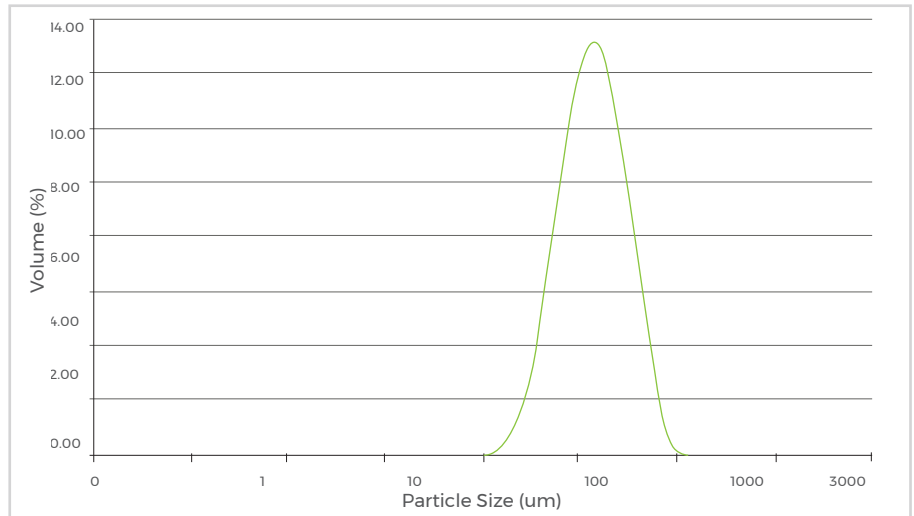
## Particle Size Distribution

Compressol SM has a pleasant taste and favorable mouthfeel that makes it especially suitable for chewable tablets, but it can also be used in conventional swallow or quick-dissolve tablets. It is a pharmaceutical grade product with consistent particle size and low moisture.

## The Main Advantage of Compressol SM is its Designed Functionality:

- Very high compactibility
- Low hygroscopicity
- Smooth mouthfeel
- Pleasant sweetness (40% sucrose)
- Free-flowing
- Tight particle size distribution

Figure 3: Consistent Particle Size



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