



CM90

Directly Compressible granulated Calcium Carbonate with Maltodextrin for supplement tablets



With our special granulation technology, we provide our mineral supplement customers with a highly compressible high assay (91%) calcium carbonate.

Ideally CM90 is used for swallow tablets due to its high density and compressibility. However, it can also be used for chewable, gummies and other tablet forms.



Why use CM90 for swallow supplement tablet?

- High density DC Calcium Carbonate is highly compressible, allowing very small easier to swallow tablets
- Excellent flow
- CM90 has excellent compactability and binding properties allowing the formulator to reduce the amount of other binders in the formula; making room for additional actives or simply making a smaller tablet



CM90

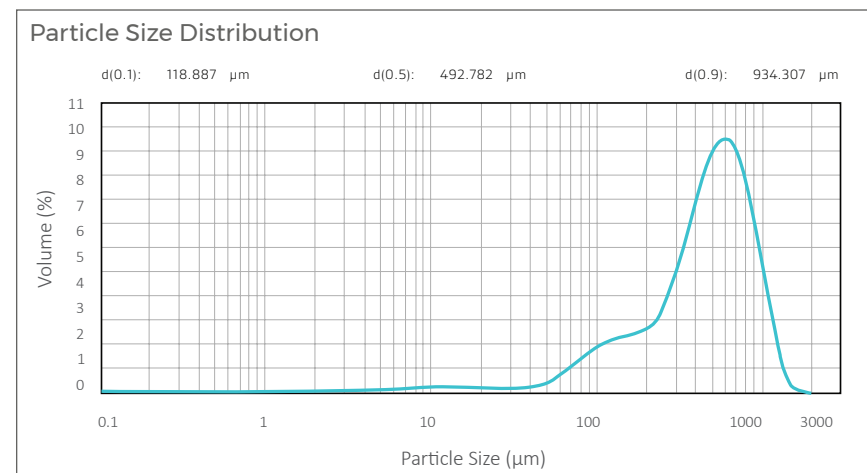
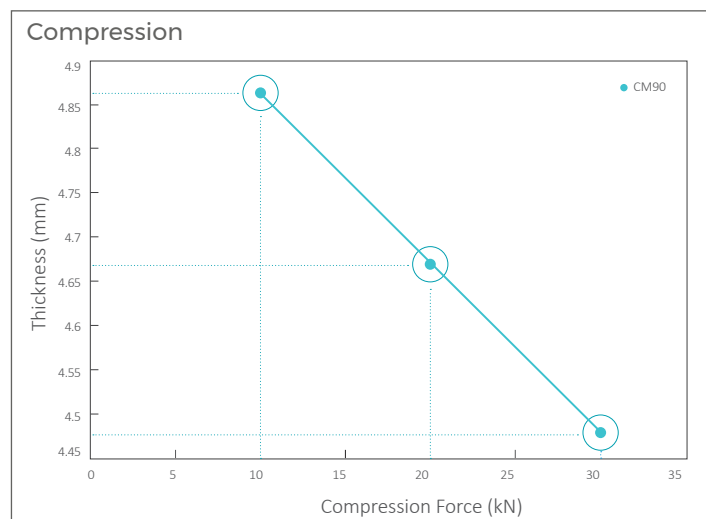
Excellent for tableting by direct compression, saving time and money

Excellent compactibility and compressibility

- At compression force between 10-30 kN, the CM90 tablets have ideal hardness and thickness for swallow tablets

Good flowability

- Our granulation technology provides consistent PSD from batch to batch and that ensures good flowability and good tableting
- Consistent feed to the tableting machine



Versatility

- CM90 is a versatile ingredient that can be used as an active or as an excipient. It provides buffering properties (in a pH 9 environment)
- Can be used for direct compression and wet granulation
- Can be used in many different final application forms – swallow, chewable, sachet, gummies, toffees, and effervescent forms with smooth fizzing



SPI Pharma's expertise will help you increase your production rate especially for smaller tablets, by providing you with a high flow product that blends consistently and homogeneously with other ingredients in the formulation.

Starting Formula using CM90 in a swallow Calcium and Vitamin tablet

	LABEL CLAIM per Tablet	
Calcium Carbonate	2500 mg CaCO ₃ equivalent to: 1000 mg of Calcium (Ca ²⁺)	
Vitamins D3	800 IU	
INGREDIENTS	% by weight	Qty per Tablet
CM90 at 91% CaCO ₃	96.73 %	2747.25 mg
Vitamin D3 (100 IU/mg)	0.28 %	8.00 mg
Crospovidone	2.00 %	56.80 mg
Magnesium Stearate	0.99 %	27.95 mg
Total Tablet Weight 2840.00 mg		

Manufacturing Guidance

- 1. Screening / Weighing:** screen through # 30 mesh sieve and weigh the ingredients listed in the above recipe
- 2. Blending:** blend the ingredients for approximately 10 minutes on a Turbula Blender Type
- 3. Tableting:** compress the blend to the targeted tablet characteristics on a rotary tablet press

Elemental Impurities

Operating in a highly regulated industry, we understand the importance of minimal elemental impurities for our customers. We perform a thorough risk assessment on all of our products to ensure regulatory compliance. SPI Pharma has invested approximately \$1M of testing technology, resources and external testing to ensure our customers the peace of mind that our products are below the threshold and only require annual confirmation testing. Customers can depend on our certification and can alleviate their burden of testing.

Regulatory Compliance†

CM90 Calcium Carbonate

- ✓ Technical File
- ✓ Non-GMO *
- ✓ Gluten Free
- ✓ Halal (for ingredients)
- ✓ Kosher
- ✓ Aflatoxin Free
- ✓ cGMP
- ✓ Nano Material Free
- ✓ Components Origin
- ✓ Latex Free
- ✓ Absence of Residual Solvents
- ✓ Absence of Phthalates
- ✓ Food Compliance
- ✓ Heavy Metals Compliance
- ✓ USP
- ✓ BSE/TSE
- ✓ Absence of Allergens

* Available for Calcium Carbonate. No Non-GMO for Maltodextrin
 † Documents available upon request



Excipients for Swallow Tablets



Taste Masked Actives



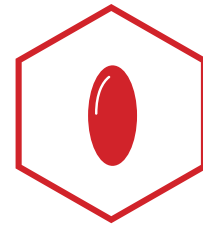
ODTs/ODPs



Effervescent Tablets



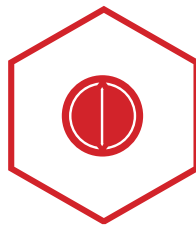
Vaccine Adjuvants



Soft Gel Capsules



Antacid & Laxative Ingredients



Chewable Tablets & Lozenges



Nutraceutical Applications

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