

EXCIPIENTS

METHOCEL™ DC2

PREMIUM CELLULOSE ETHERS



Particle Engineered for Superior Performance and Reliability

- Improved Flow Properties for Matrix Tablets
- Lower Tablet Processing Costs
- Highly Reproducible Tablet Properties

Colocon® 

Breakthrough Technology

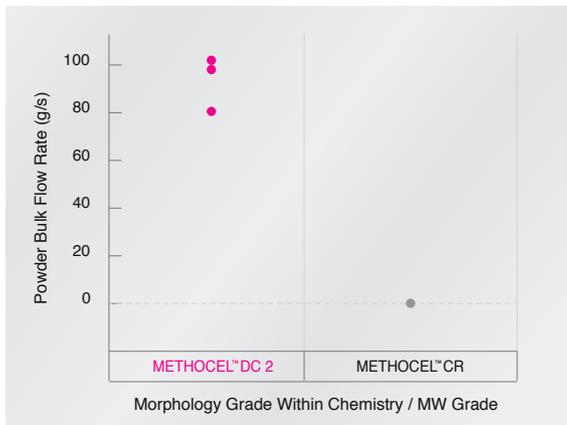
METHOCEL™ DC2 Premium Excipients help you enjoy the benefits of dry powder processing techniques while maintaining consistent modified release performance. They offer the performance and reliability expected from the proven family of METHOCEL™ CR excipients.

- Improved flow properties, providing excellent processability for roller compaction and direct compression
- Greater reproducibility in resulting tablet properties: hardness, weight and content uniformity
- Shortened development time and lower manufacturing costs

Improved Flow Properties

- Science-based, designed particle morphology, enabling the switch from batch wet granulation techniques to continuous dry processing techniques, like roller compaction and direct compression

Powder Bulk Flow Rate



Convenience and Reliability

- Reduce regulatory risk with pure pharmacopeial HPMC
- Demonstrated benefits using model API formulations
- Reliably supplied from IFF with Colorcon global supply and logistics

Direct Compression Portfolio

Two Premium DC2 grades are currently available: METHOCEL™ K100LV and METHOCEL™ K100M Premium DC2. These polymers have been developed to optimize dry powder processability while maintaining the same important properties as the corresponding Controlled Release (CR) grades.



Lower Tablet Processing Costs

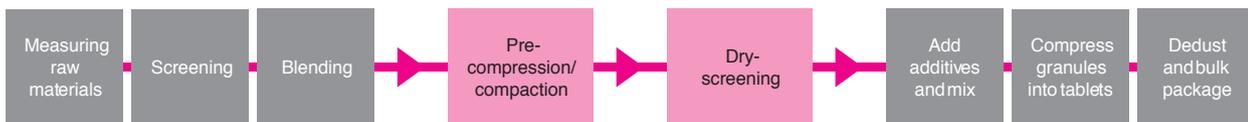
Table 1 illustrates the potential for significant time and cost savings for tablet manufacturers can be up to 60%. Actual results will vary based on formulation, manufacturing process and local labor costs.

Table 1: Time Savings with Direct Compression (DC) Process

Direct Compression



Dry Granulation



Wet Granulation



METHOCEL™ DC 2 Provides better protection for heat and moisture sensitive actives

Greater Reproducibility in Tablet Properties

Consistency and Uniformity

METHOCEL™ DC2 facilitates higher reproducibility in tablet weight and API content uniformity when used for direct compression.

Figure 1. METHOCEL™ DC2. Tablet Weight Consistency

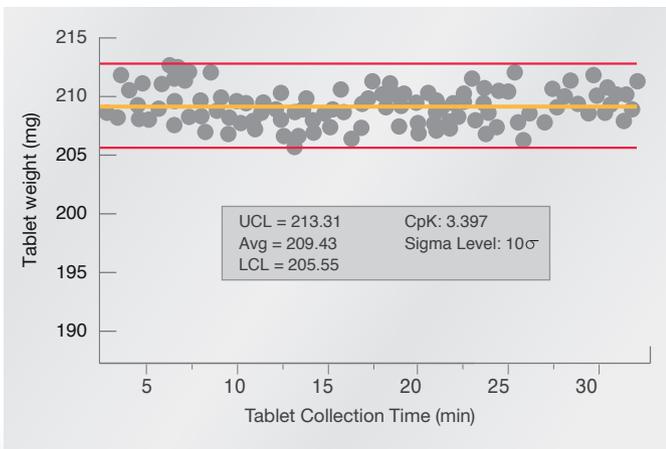
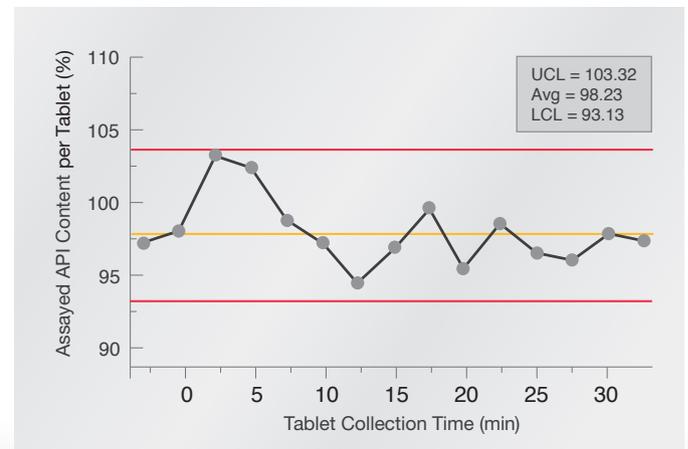


Figure 2. METHOCEL™ DC2. API Content Uniformity, per Tablet



Results from IFF internal studies carried out in 2013 using a gliclazide model formulation.

Unique Together

- IFF polymer chemistry expertise and manufacturing capability
- Colorcon dedicated team provides formulation expertise
- Colorcon local technical support for trials, scale-up and troubleshooting
- Colorcon global supply and logistics

Contact your Colorcon representative or call:

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You can also visit our website at
www.colorcon.com

Deliver High Performance Products - with Colorcon

Choose Colorcon, leader in pharmaceutical solid oral dose solutions, as a formulation partner of choice in every phase of your product development.

Film Coatings:

- Optimized formulations specifically for your application and regulatory needs including customized colors and color matching
- Innovative products for mechanical integrity, gloss, pearlescence and environmental protection
- Tablet design concepts, consulting and services to build a strong brand image and stand out from the competition.

Formulation Technologies:

- Full range of functional excipients
- Technologies for development and production of delayed/enteric release and extended/controlled release tablets and multiparticulates
- HyperStart® service and extensive applications data to provide starting formulations to save you development time and money
- Extensive formulation know-how and technical support to achieve the exact drug release profile desired.



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