



Direct Compression Vitamin&Mineral DC Granules——One step to tablets



ABOUT

Direct compression (DC) is the fastest and most cost-efficient way to manufacture tablets, directly transforming granules into tablets without extra steps. DC granules are specifically engineered to deliver superior flowability, low dust generation, and excellent compactibility and compressibility, ensuring robust tablet quality. The process shortens production cycles, lowers costs and energy use, reduces environmental impact, and is highly compatible with continuous manufacturing due to its efficiency and small production footprint.

Benefits

- **Better performance**
Flow and compress reliably
- **Simpler formulas**
Without wet granulation or extra binders
- **Save time and reduce cost >50%**
- **Consistent tablets**
Good stability with uniform granule size distribution



Key words

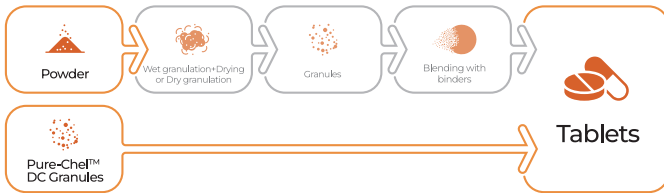
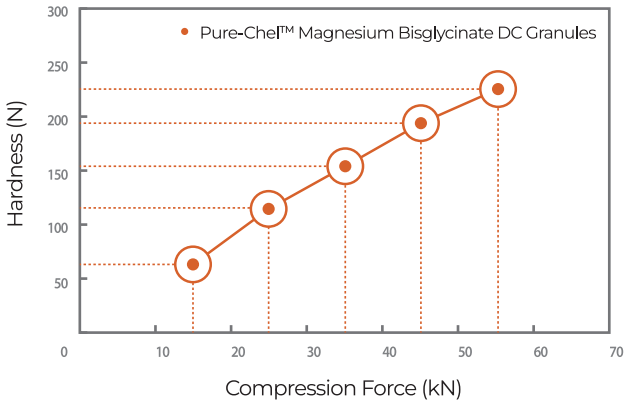
Efficient

High-quality

Sustainable tablet production

Pure-Chel™ Magnesium Bisglycinate DC Granules

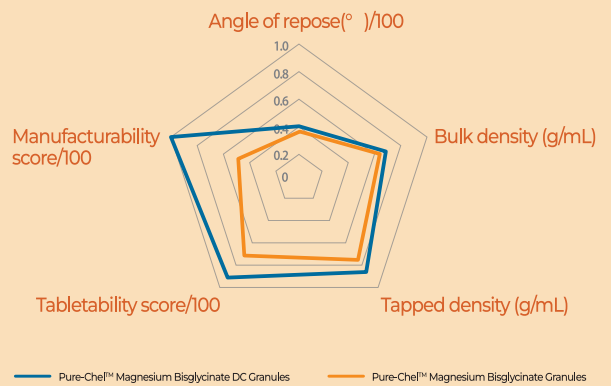
Pure-Chel™ Magnesium Bisglycinate DC Granules offer excellent flowability and compressibility, enabling efficient direct compression with enhanced stability and cost advantages for tablets.



The following parameters of Pure-Chel™ Magnesium Bisglycinate DC Granules were compared with conventional granules, demonstrating significantly improved tableting performance and overall process efficiency.

Direct Compression Performance Profile

Data normalized to 1.0 for comparison of relative performance



Vitamin B Complex Direct Compressing Granules

Vitamin B DC Granules (B1 Nitrate, B2, B6) address the formulation challenges of conventional B-vitamin powders by offering enhanced flowability, improved stability, and excellent particle uniformity. The granules minimize adhesion issues during blending and enable efficient direct compression, ensuring reliable tablet quality and broader formulation applicability.

