

TECHNICAL DATA SHEET

Fujicalin[®]



Fujicalin[®] - The Unique DCPA

Fujicalin[®] is a unique form of dibasic calcium phosphate anhydrous (DCPA) or calcium hydrogen phosphate anhydrous (CaHPO₄). Fujicalin[®] is a product of Fuji Chemical's proprietary manufacturing method and spray drying technology. It is designed to function as a direct compression excipient.

Key Features

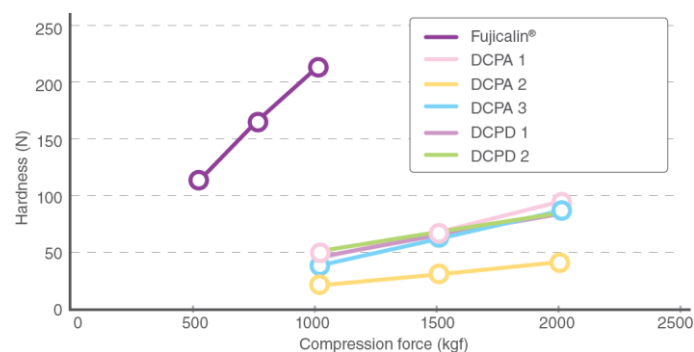
- Highly compressible, and produces harder tablets than other directly compressible conventional excipients
- Easy blending and excellent flowing properties due to its spherical shape, which creates less friction
- Works with other disintegrants to promote rapid disintegration regardless of tablet hardness
- Fujicalin[®] granules have a smooth surface and are less abrasive compared to other DCPAs and DCPDs
- High degree of porosity is retained even under high pressure, resulting in excellent oil adsorbing capability
- Approved for pharmaceutical and food excipient use allowing versatile applications

General Properties

| | | |
|--------------------------------------|--|------|
| Chemical formula | CaHPO ₄ | |
| General name | Anhydrous dibasic calcium phosphate (USP), Calcium hydrogen phosphate (EP) | |
| Appearance | White, crystalline powder | |
| Average particle size (µm) | 120 | |
| Carr value* | 86.5 | |
| BET surface area (m ² /g) | 40 | |
| Compressibility index | 15.1 | |
| Bulk density | Loose (g/ml) | 0.46 |
| | Tapped (g/ml) | 0.54 |
| Angle of repose (°) | 30 | |
| Oil adsorbing capacity (ml/g) | 1.1 | |
| Water adsorbing capacity (ml/g) | 1.2 | |
| Water activity | 0.11 | |

*Carr value calculated adding relevant index points. Higher value indicates better powder flow properties (Ref- Carr, R. L., Chem. Eng., 1965; 72(3), 163-168)

Comparison of tablet hardness with other available DCPA's



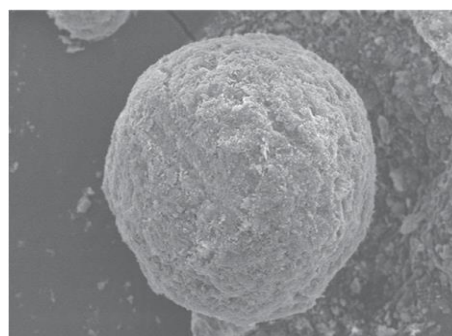
Fujicalin[®]'s high specific surface area contributes to higher tablet hardness at low compression forces.

Pharmacopoeia & Regulatory

Fujicalin[®] is manufactured under strict quality control at our cGMP certified facilities. Fujicalin[®] meets all the requirements of the current USP/NF, EP and JP. US DMF type IV filed.

Handling & Storage

Packaging: 20 kg aluminum-lined, kraft paper sack
Storage: Store at room temperature and avoid high humidity
Shelf life: 3 years from the date of manufacture when stored in recommended conditions



Fujicalin[®] (x800)



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