

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

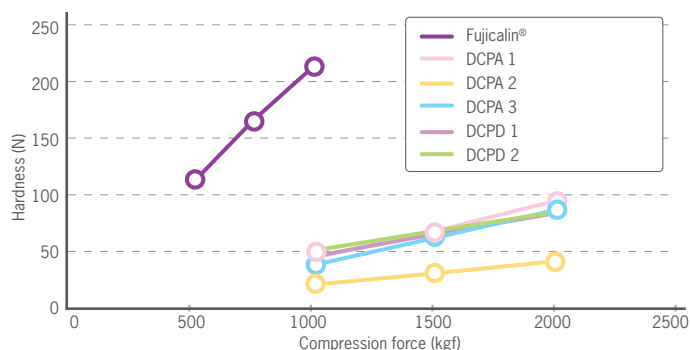
- Highly compressible, and produces harder tablets than other directly compressible conventional excipients
- Easy blending and excellent flowing properties due to its spherical shape, which creates less friction
- Works with other disintegrants to promote rapid disintegration regardless of tablet hardness
- 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, Anhydrous (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	
Loss on drying 110°C/7hrs (%)	≤ 1.0	
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



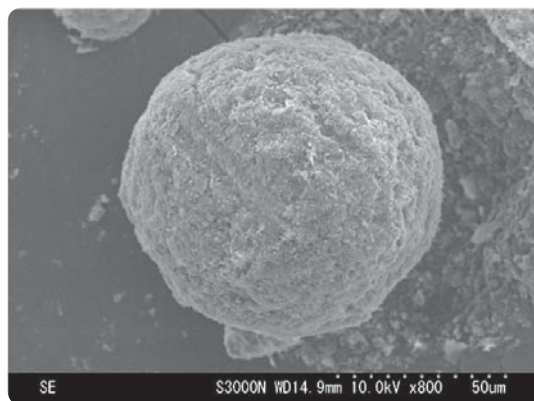
Fujicalin®'s high specific surface area contributes to higher tablet hardness at low compression forces.

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. A US DMF type IV filed in 1998.

Handling & Storage

Packaging: 20 kg aluminum bag in a Kraft bag
 Storage: Store at room temperature and avoid high humidity.
 Shelf life: 3 years from the date of manufacture stored in recommended conditions.



Fujicalin® (x800)



Fuji Chemical Industries USA, Inc.

3 Terri Lane, Unit 12, Burlington, NJ 08016

Tel: 609-386-3030 Fax: 609-386-3033

www.fujichemicalUSA.com contact@fujichemicalUSA.com

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