Microcrystalline cellulose (MCC) compacts more effectively than any other excipient making Pharmacel ${ }^{\circledR} 102$ the ideal choice for direct compression and dry granulation formulations. It's versatility in direct compression extends to very high dose actives, where compactability is at a premium.


## Pharmacel ${ }^{\circledR} 102$

## Benefits

## Consistency

Pharmace ${ }^{\circledR}$ is industry leading with high batch-to-batch consistency on functional properties allowing you low risk during production and in your formulation development.


## Pharmacel ${ }^{\circledR}$ and Lactose formulations

DFE Pharma is the only global excipient manufacturer offering it's customers both lactose and microcrystalline cellulose products for development of pharmaceutical formulations. Combination of Pharmacel ${ }^{\circledR}$ with one of the lactose grades offered by DFE Pharma provides additional benefit to formulations, by achieving the perfect combination of brittle and plastic excipient behaviour.

## Physical - chemical properties

Pharmacel ${ }^{\circledR} 102$ has good flow properties enabling high speed direct compression tableting. In addition, tablets of high tensile strength with low ejection forces can be obtained with low compaction forces. Pharmacel ${ }^{\circledR} 102$ has some lubrication properties facilitating smooth tableting experience.

## Facts

## Typical product data

Complies with Ph.Eur., USP-NF, JP, IP, Kosher \& Halal certified

Particle size distribution
Method: dry laser diffraction

| Laser diffraction |  |
| :--- | :--- |
| $\times 10$ | $20-40 \mu \mathrm{~m}$ |
| $\times 50$ | $80-110 \mu \mathrm{~m}$ |
| $\times 90$ | $170-250 \mu \mathrm{~m}$ |



High protective packaging

|  | Bag |
| :--- | :--- |
| Capacity | 25 kg |
| Composition | Multi-layer PE |
| Shelf life | 4 years |

