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 Manufacturing site: Ceolus Plant  
 304, Mizushiri-machi, Nobeoka-city, Miyazaki 882-0015, JAPAN

## SPECIFICATIONS

**Compendial name** : Microcrystalline Cellulose, NF, Ph.Eur., JPE  
**Trade name** : CELPHERE™  
**Grade** : CP-708

**Organic Solvent: not used in our process**

### Compendial Standards

Description <JPE>  
 Identification  
 Degree of polymerization  
 Loss on drying (%)  
 pH  
 Residue on ignition (%)  
 Water soluble substances (mg)  
 Ether soluble substances (mg)  
 Heavy metals (ppm)  
 Solubility  
 Conductivity ( $\mu$  S/cm)  
 Bulk density ( $\text{g}/\text{cm}^3$ )  
 Sphere size (%), 106  $\mu$  m pass <JPE>  
 Total aerobic microbial count (CFU/g)  
 Total combined molds and yeasts count (CFU/g)  
 Escherichia coli  
*Salmonella* species  
*Pseudomonas Aeruginosa*  
*Staphylococcus Aureus*

### Specifications

Passes  
 Passes  
 100 – 300  
 NMT 6.0  
 5.0 – 7.5  
 NMT 0.1  
 NMT 12.5  
 NMT 5.0  
 NMT 10  
 Passes  
 NMT 75  
 0.80 – 1.20  
 NMT 5  
 NMT 1000  
 NMT 100  
 None Present  
 None Present  
 None Present  
 None Present

### ASAHI Standards

P.S.D., Asahi method, d10 ( $\mu$  m) NLT 670  
 P.S.D., Asahi method, d50 ( $\mu$  m) 755 – 795  
 P.S.D., Asahi method, d90 ( $\mu$  m) NMT 840

NMT --- Not More Than JPE --- Japanese Pharmaceutical Excipients

We certify that the product complies with the standards of the NF, Ph. Eur., JPE.

P.S.D., Asahi method: Dynamic image analysis method (by Particle Analyzer CAMSIZER, Retsch Technology)

**Storage conditions:** Protect from direct sunlight, high temperature and humidity, and store indoors. Avoid transfer of odor or storing in the same place with materials with strong odor.

**Re-evaluation Date:** Three and a half years after manufacturing, if stored as recommended.

Asahi Kasei Corporation recommends that the customer's quality control unit may re-evaluate the quality of this material at the given time e.g. for loss on drying and extend the shelf life of this lot on its own responsibility.

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Yoshinaga Tamura  
 General Manager  
 Quality Assurance Department  
 Functional Additives Division  
 Performance Materials SBU