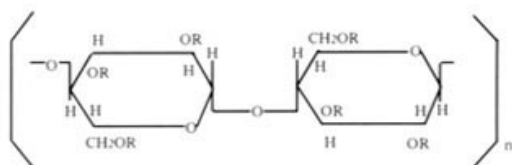


Hydroxy Propyl Methyl Cellulose (HPMC)

1. Chemical Name: Hydroxy Propyl Methyl Cellulose (H.P.M.C)

-Structure:



R=H, - CH₃ or - CH₂CH(OH)CH₃ n: Polymerization degree

2. Specification:

| Item | | | | Range of Viscosity (Mpa.s) | | |
|------------------------------------------------|----------|-------|-------|----------------------------|--------|--------------|
| | | | | | | |
| Methoxyl Content (wt%) | 28-30 | 27-30 | 19-24 | Very low | 5 | 3-7 |
| Hydroxypropoxyl Content (wt%) | 7-12 | 4-7.5 | 4-12 | Very low | 10 | 8-12 |
| Gelling Temperature (°C) | 58-64 | 62-68 | 70-90 | Very low | 15 | 13-18 |
| Loss on drying (wt%) | 5 max | | | Low | 25 | 20-30 |
| Ash | 1 max | | | Low | 50 | 40-60 |
| PH (25°C) | 4-8 | | | Low | 100 | 80-120 |
| Chloride (NaCl) | 0.2 max | | | High | 4000 | 3500-5600 |
| Arsenic (ppm) | 2 | | | High | 12000 | 10000-14000 |
| Heavy metal (ppm) | 20 | | | High | 20000 | 17000-22000 |
| Apparent Viscosity (2% solution, 20 °C, mpa.s) | 5-100000 | | | Very High | 25000 | 27000-32000 |
| | | | | Very High | 30000 | 27000-32000 |
| | | | | Very High | 40000 | 38000-42000 |
| | | | | Very High | 100000 | 80000-100000 |

3. Physical Property:

-Appearance: White or close to white Powder.

-Size: 85% through 100 mesh sieve; 100% through 80 mesh sieve

4. Application:

Used in pharmaceutical industry as dispersing agent, lubricator and film former. It's used as an adhesive and coating film in tablets, increasing markedly rate of dissolution and release, and strengthen the waterproofing for tablets. It is also be used as mixed dispersing agent. Controlled released matrix tablets.

5. Packing and Storage:

It is packed in pasteboard drum and lining with polyethylene film bag. Net weight 25kg per drum, direct sunshine and moisture must be avoided.

6. Produced under FDA's GMP and meet USP BP and JP Standards