

Coating Parameters

Opadry[®] EC is a fully formulated organic solvent based barrier membrane coating system for multiparticulates and tablets. Opadry EC provides customized release profiles through the choice of three standard formulations (with no, low and high porosity levels) and the weight gain applied.

The coating parameters recommended for use with Opadry EC are based on Colorcon trial data. Individual product and machine settings should be taken into account and conditions altered as required. For further technical advice, please contact your Colorcon Area Technical Representative (ATM).

| Coating Parameter | GPCG-2 | Vector VFC LAB-1 | Freund-Vector VFC-60M with Wurster Accelerator |
|--|-------------------|------------------|--|
| Solvent (90:10 w/w) | Isopropanol:water | Ethanol:water | Isopropanol:water |
| Solids content (% w/w) | 6-8 | 6-8 | 6-8 |
| Theoretical weight gain (%) | 10 | 10 | 10 |
| Batch size (kg) | 0.75 | 0.8 | 35.0 |
| Inlet air temperature (°C) | 43 | 48 | 40 |
| Drying air volume (CFM / m ³ /hr) | 45 / 77 | 75 / 127 | 850 / 1444 |
| Product temperature (°C) | 30 | 33 | 30 |
| Exhaust air temperature (°C) | 28 | 33 | 30 |
| Spray equipment | Schlick | Vector | Schlick |
| Partition height (cm) | 1.5 | 2.5 | 3.8 |
| Fluid nozzle (mm) | 1.2 | 1.0 | 1.8 |
| Air cap (mm) | 3.0 | 2.5 | 8.89 |
| Atomizing air pressure (bar) | 1.2 | 2 | 3.0 – 3.5 |
| Fluid delivery rate (g/min) | 8 | 9 | 200 |

Opadry EC is reconstituted to 6-8% w/w solids dispersion, dependent on the solvent used. Typical recommended weight gains are 10% to 40% depending on the shape, size and surface area of the multiparticulate or tablet.

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