

Coating Parameters – Clear Formulations

Opadry® CA is a dry blend of excipients for the application of a semipermeable membrane coating to osmotic pump tablets.

The coating parameters listed in the table below are based on Colorcon data for Opadry CA clear formulations. Individual product and machine functions should be taken into account and conditions altered as required.

Fully Perforated Side Vented Coating Pan						
Pan Diameter	cm	33	44.5	38.1	61	91
	in	13	17.5	15	24	36
Solution Preparation						
Solvent		Acetone:water (94:6 - 90:10)	Acetone:water (94:6 - 90:10)	Acetone:water (94:6 - 90:10)	Acetone:water (94:6 - 90:10)	Acetone:water (94:6 - 90:10)
Solids Content	% w/w	7.0	7.0	7.0	7.0	7.0
Run Objectives						
Theoretical Weight Gain	% w/w	10	10	10	10	10
Tablet Charge [†]	kg [†]	1.0 – 2.0	4 – 5	2.5 – 3.5	13 – 15	65 – 70
Gun Configuration						
Example Spray Gun	type	Schlick	Schlick	Schlick	Schlick	Vector AT
Number of Guns	guns	1	1	1	2	3
Nozzle Diameter	mm	1.2	1.2	1.2	1.2	1.5
	in	0.05	0.05	0.05	0.05	0.06
Gun to Bed Distance	cm	6.5	6.5	6.5	8.9	10.2
	in	2.5	2.5	2.5	3.5	4.0
Gun to Gun Distance	cm	N/A	N/A	N/A	15	17.8
	in	N/A	N/A	N/A	6	7
Atomizing Air Pressure	bar	1.5	1.5	1.1 – 1.4	1.1 – 1.4	1.5
	psi	21	21	15 – 20	15 – 20	21
Pattern Air Pressure	bar	0.5	0.5	1.4	1.4	1.0
	psi	7.3	7.3	20	20	15
Process Parameters						
Drying Air Volume	cu.m/hr	136	136	272	425	1700
	cu.ft/min	80	80	160	250	1000
Pan Speed*	rpm*	18	15	18	14	10
Pre-warm Tablet Bed	°C	33 – 38	33 – 38	30 – 35	30 – 35	30 – 32
	°F	91 – 101	91 – 101	86 – 95	86 – 95	86 – 90
Inlet Air Temperature	°C	39 – 42	39 – 42	31 – 34	30 – 39	39 – 42
	°F	102 – 108	102 – 108	88 – 93	86 – 102	102 – 108
Tablet Bed Temperature	°C	26 – 29	26 – 29	26 – 29	24 – 28	24 – 26
	°F	79 – 84	79 – 84	79 – 84	75 – 82	75 – 79
Spray Rate	g/min	28 – 30	28 – 30	40 – 44	100 – 120	480 – 520
Approx. Coating Times	min	71 – 77	214 – 230	97 – 107	167 – 200	182 – 200
*Pan speed should be set so that even mixing of the bed occurs. This will be influenced by tablet size, shape, friability and baffle type in the pan. [†] Tablet charge is dependent on tablet size and shape.						

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