

Complete Film Coating System for Nutritionals

Coating Process Conditions – Pigmented Formula

Opadry[®] NS is a complete film coating system for nutritional supplements. The coating parameters listed in the table below are based on Colorcon data. Individual product and machine functions should be taken into account and conditions altered as required.

	Fully	Perforated Side Ven	ted Coating Pan		
Pan Diameter	cm	38.1	60.96	122	152.4
Fall Diameter	in	15	24	48	60
		Solution Prepa	ration		
Solvent		Purified Water	Purified Water	Purified Water	Purified Wa
Solids Content	% w/w	15	15	15	15
		Run Objectiv			
Theoretical Weight Gain	% w/w	3	3	3	3
Tablet Charge	kg	1.5 - 3.0	12 - 15	120 - 160	320 - 350
		Gun Configura			
Example Spray Gun	Туре	Schlick 931/7-1 S22	Spraying Systems 1/8 VAU	Schlick 931/7-1 S35 (ABC)	Manesty
Number of Guns	guns	1	1-2	3 - 4	5 - 6
Fluid Nozzle	type	Standard	VF4078-316SS	Standard	Standard
Nozzle Diameter	mm	1.2	1.02 mm	1.2	1.2
	in	0.05	0.04 in	0.05	0.05
Air Cap	type	Standard (#46 - Horned)	VA113293-60- 316SS	ABC - Anti Bearding Cap	Standard (Horned)
Gun to Bed Distance	cm	10	17	25	25
	in	4	7	10	10
Gun to Gun Distance	cm	N/A	10	15	15
	in	N/A	4	6	6
Atomizing Air Pressure	bar	1.4	1.7	2.5	2.5
	psi	20	25	36	36
Pattern Air Pressure	bar	1.4	1.7	2.5	2.5
	psi	20	25	36	36
	•	Process Param	neters		
Drying Air Volume	cu.m/hr	250 - 290	424 - 470	2300 - 3060	5440 - 66
	cu.ft/min	147 - 175	250 - 275	1350 - 1800	3200 - 39
Pan Speed	rpm*	18	14	8	6
Pre-warm tablet Bed	°C	45 - 50	45 - 50	45 - 50	45 - 50
	°F	113 - 122	113 - 122	113 - 122	113 - 12
Inlet Air Temperature	°C	60	65	65	65
	°F	140	149	149	149
Tablet Bed Temperature	°C	43 - 48	43 - 48	43 - 48	43 - 48
	°F	109 - 118	109 - 118	109 - 118	109 - 11
Spray Rate	g/min	12 - 20	40 - 60	260 - 430	650 - 750
Approximate Coating Times	min	18 - 23	38 - 45	55 - 70	70 - 80

*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.



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