

Coating Parameters for the Use of Nutrapure™

Nutrapure™ is a fully formulated, aqueous based coating system composed entirely of plant-based, Certified Organic, food ingredients that are GMO and allergen free. The system is easy-to-apply using standard film coating equipment and processes. The coating parameters which are recommended for use with Nutrapure are based on Colorcon trial data. Individual product and machine functions should be considered and conditions altered as required. For further technical advice, please contact your Colorcon Technical Representative.

Pan Type		Fully Perforated Side Vented Coating Pan			
Pan Diameter	cm	38.1	60.96	122	152.4
	in	15	24	48	60
Solution Preparation					
Solvent		Purified Water	Purified Water	Purified Water	Purified Water
Solids Content	% w/w	12	12	12	12
Run Objectives					
Theoretical Weight Gain	% w/w	1 - 2	1 - 2	1 - 2	1 - 2
Tablet Charge	kg	1.5 to 3.0	12 to 15	120 to 160	320 to 350
Gun Configuration					
Example Spray Gun	Type	Schlick 931/7-1 S22	Spraying Systems 1/8 VAU	Schlick 931/7-1 S35 (ABC)	Schlick 931/7-1 S35 (ABC)
Number of Guns	guns	1	1 to 2	3 to 4	5 to 6
Fluid Nozzle	type	Standard	VF4078-316SS	Standard	Standard
Nozzle Diameter	mm	1.2	1.2	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	ABC - Anti Bearding Cap
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	1.7	1.7
	psi	20	25	25	25
Pattern Air Pressure	bar	1.4	1.7	1.7	1.7
	psi	20	25	25	25
Process Parameters					
Drying Air Volume	cu.m/hr	250 to 290	424 to 470	2300 to 3060	5440 to 6630
	cu.ft/min	147 to 175	250 to 275	1350 to 1800	3200 to 3900
Pan Speed	rpm*	18	14	8	6
Pre-warm tablet Bed	°C	32 - 40	32 - 40	32 - 40	32 - 40
	°F	90 - 104	90 - 104	90 - 104	90 - 104
Inlet Air Temperature	°C	65	65	65	65
	°F	149	149	149	149
Tablet Bed Temperature	°C	43 - 47	43 - 47	43 - 47	43 - 47
	°F	109 - 117	109 - 117	109 - 117	109 - 117
Spray Rate	g/min	12 to 20	40 to 60	260 to 430	650 to 750

*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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