## **NUTRAFICIENT®**

Food Supplement Coating

## **Coating Parameters - Clear (PVA-based) Formulations**

Nutraficient<sup>®</sup>, food supplement coatings are one-step film coating products available in clear, white and pigmented formulations. Developed specifically for food supplements, they provide excellent film forming capabilities including logo definition, high tensile strength and excellent adhesion properties.

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

		Fully Perforated Side Vented Pan				Conventional Pan
Pan Diameter	cm	38.1	60.96	122	152.4	40.64
	in	15	24	48	60	16
			Solution Prep	aration		
Solvent		Purified Water	Purified Water	Purified Water	Purified Water	Purified Water
Solids Content	% w/w	8	8	8	8	8
			Run Object	ives		
Theoretical Weight Gain	% w/w	1	1	1	1	1
Tablet Charge <sup>†</sup>	kg <sup>†</sup>	1.5 – 3.0	12 - 15	120 - 160	320 - 350	3
			Gun Configu	ration		
Example Spray Gun	type	Schlick 931/7-1 S22	Spraying Systems 1/8 VAU	Schlick 931/7-1 S35 (ABC)	Manesty	Schlick 970/7-1 S75
Number of Guns	guns	1	1 - 2	3 - 4	5 - 6	1
Nozzle Diameter	mm	1.2	1.2	1.2	1.2	1.2
	in	0.05	0.05	0.05	0.05	0.05
Gun to Bed Distance	cm	10	17	25	25	15
	in	4	7	10	10	6
Gun to Gun Distance	cm	N/A	10	15	15	N/A
	in	N/A	4	6	6	N/A
Atomizing Air Pressure	bar	1.4	1.7	2.5	2.6	1.4
	psi	20	25	36	36	20
Pattern Air	bar	1.4	1.7	2.5	2.5	1.4
Pressure	psi	20	25	36	36	20
			Process Para	meters		
Drying Air Volume	cu.m/hr	250 – 290	424 – 470	2300 - 3060	5440 – 6630	140
	cu.ft/min	147 – 175	250 – 275	1350 – 1800	3200 - 3900	80
Pan Speed	rpm*	18	14	8	6	20
Pre-warm	°C	45 - 50	45 - 50	45 - 50	45 - 50	45 - 50
Tablet Bed	°F	113 - 122	113 - 122	113 - 122	113 - 122	113 - 122
Inlet Air	°C	60	65	65	65	65
Temperature	°F	140	149	149	149	149
Tablet Bed	°C	45 – 48	45 – 48	45 – 48	45 – 48	45 – 48
Temperature	°F	113 - 118	113 - 118	113 - 118	113 - 118	113 - 118
Spray Rate	g/min	12 – 20	40 – 60	260 – 430	650 – 750	12
Approximate Coating Times	min	15 – 20	30 – 40	45 – 60	55 – 65	31

\*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.



<sup>&</sup>lt;sup>†</sup>Tablet charge is dependent on tablet size and shape.

For more information, contact your Colorcon representative or call:

North America +1-215-699-7733 Europe/Middle East/Africa +44-(0)-1322-293000

Asia Pacific +65-6438-0318

Latin America +54-11-5556-7700

All trademarks, except where noted, are property of BPSI Holdings LLC.