

Coating Parameters – HPMC (276 and 277 series) Based White and Pigmented Formulations

Opadry[®] TF, Titanium Dioxide Free Film Coatings are made specifically for pharmaceutical products. Elimination of titanium dioxide provides manufacturers with an alternative coating finish that satisfies aesthetic appeal while addressing current market concerns. Opadry[®] TF, TiO2 free film coating options are available as clear, white, or pigmented systems. The coating parameters listed in the table below are based on Colorcon[®] data for HPMC based white and pigmented formulations. Individual product and machine functions should be considered, and conditions altered as required.

Pan Type		Fully Perforated Side Vented Coating Pan			
Pan Diameter	cm	38.1	60.96	122	152.4
	in	15	24	48	60
			ution Preparation		
Solvent		Purified Water	Purified Water	Purified Water	Purified Water
Solids Content	% w/w	18-20	18-20	18-20	18-20
		R	tun Objectives		
Theoretical Weight Gain	% w/w	3-5	3-5	3-5	3-5
Tablet Charge	kg	1.5-3	12-15	120-160	320-350
			n Configuration		
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
	mm	1.2	1.2	1.2	1.2
Nozzle Diameter	in	0.05	0.05	0.05	0.05
Gun to Bed	cm	10	17	25	25
Distance	in	4	7	10	10
Gun to Gun	cm	N/A	10	15	15
Distance	in	N/A	4	6	6
Atomizing Air Pressure	bar	1.4	1.7	2.5	2.5
	psi	20	25	35	35
Pattern Air	bar	1.4	1.7	2.5	2.5
Pressure	psi	20	25	35	35
			cess Parameters		
Drying Air Volume	cu.m/hr	250-290	425-470	2300-3060	5440-6630
	cu.ft/min	145-175	250-275	1350-1800	3200-3900
Pan Speed*	rpm*	18	14	8	6
Pre-warm tablet	°C	45-50	45-50	45-50	45-50
Bed	°F	113-122	113-122	113-122	113-122
Inlet Air Temperature	°C	60	65	65	65
	°F	140	149	149	149
Tablet Bed	°C	45-48	45-48	45-48	45-48
Temperature	°F	113-118	113-118	113-118	113-118
Spray Rate*	g/min	15-20	40-60	260-430	650-750

*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.

*Spray rate numbers are estimated.



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