





# TABSAFE MB

TabSafe MB is a unique, optimized moisture barrier coating material suitable for use with organic solvent. It is a blend of polymers, plasticizers, pigments, opacifiers and other excipients which could be used with organic solvent system to give protection against atmospheric moisture.



## Recomended Solvent System

Organic: Reconstitution level 5% - 6% solids content

a. 35% IPA + 65% MDC

b. 35% Chloroform + 65% Ethanol

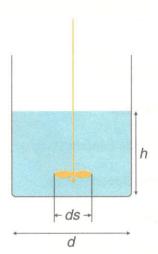
### Equipment

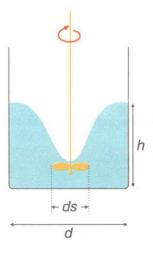
- Stainless steel vessel with a capacity that is 25% higher than the total dispersion volume.
- The height of the vessel should be nearly 25% more than its diameter.
- The speed of the propeller of stirrer needs to be variable and diameter of its blade should be approximately 33% of the vessel's diameter.

### Reconstitution procedure

- Weigh the required quantity of IPA/Choloroform.
- Stir to form a vortex
- Add the required quantity of TABSAFE Sol to the vortex
- Stir for further 5 minutes
- Add required quantity of MDC/Ethanol.
- Reduce the speed to remove the vortex
- Continue stirring for 40 minutes

Position the stirrer centrally to prevent air entrapment. Filter the solution through # 100
Continue stirring throughout the coating process.









# Coating Parameters for TABSAFE MB: Organic Solvent Sytstem

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55 - 65

250 - 300

3 - 4

Pan diameter

Inlet air temperature (°C)

Drying air volume (cfm)

Weight gain (%)





12"

55 - 65

50

3 - 4

55 - 65

3 - 4

400 - 500



TABSAFE MB

Solvent	Organic	Organic	Organic	Organic	Organic
Solids content (% w/w)	5 - 6	5 - 6	5 - 6	5 - 6	5 - 6
Pan Speed* (rpm)	10 - 14	3 - 5	1.5 - 3	18 - 20	8 - 12
Baffles	4 - 6	6 - 8	6 - 10	3	4
Tablet charge** (kg)	10 - 15	100 - 130	250 - 300	0.5 - 1	40 - 50
Tablet bed temperature (°C)	35 - 40	35 - 40	35 - 40	35 - 40	35 - 40
Spray noz <mark>zle (mm</mark> )	1	1.2-1.5	1.2-1.5	1	1.2
Number of spray guns	1	2-3	4-6	1 ,	1
Atomizing air pressure (bars)	2.5 - 3.5	2.5 - 3.5	2.5 - 3.5	2.5 - 3.5	2.5 - 3.5
Spray procedure	Continuous	Continuous	Continuous	Continuous	Continuous
Spray rate (g/min)	40 - 60	300 - 350	600 - 700	20 - 25	80 - 100

55 - 65

1500 - 2000

55 - 65

3 - 4

4500 - 5000

<sup>\*</sup> Pan speed would depend upon the tablet shape, size, friability and the number of baffles, so as to effect proper mixing during the coating process.