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**Shin-Etsu Chemical Co., Ltd.**

Organic Chemicals Division

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## PHARMACOAT®



▲PHARMACOAT® (Hypromellose\*)

\* Instead of Hydroxypropyl Methylcellulose we changed its generic name to Hypromellose as **from October, 2002.**

Film coating was developed as a sub-coating for sugar coating in the 1950s, and film-coated tablets were introduced in the early 1970s. Since then, development work aimed at enhancing efficiency by increasing the production rate of film-coated tablets and reducing costs has been carried out along with efforts to increase the bioavailability of drugs. Film coating is now a well-established and effective technique. PHARMACOAT® was developed from hypromellose (also known as hydroxypropyl methylcellulose) in 1963, during the early days of film coating. It has been the subject of a continuous program of development and quality improvement. Film coatings of this type are now in widespread use throughout the world. PHARMACOAT® is also effective as a binder, because it does not interact with drugs and has high stability and non-ionic properties. In addition, PHARMACOAT® can be used in place of gelatin for hard capsule manufacturing because of its greater stability.

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PIN code is necessary

### PHARMACOAT® Water-Soluble Film Coating Agent (Hypromellose; USP)

	Grade	Substitution Type	Labeled Viscosity (mPa·s)*
PHARMACOAT	603	2910	3
	645		4.5
	606		6
	615		15

Note: \* 2 wt.% aqueous solution at 20°C according to the USP measuring method.  
PHARMACOAT® is also useful as a binder for tablets or granules.

### SB-4 Sugar Coating Binder (Hypromellose; USP)

	Substitution Type	Labeled Viscosity (mPa·s)*
SB-4	2208	4

Note: \* 2 wt.% aqueous solution at 20°C according to the USP method.  
SB-4 is useful as a binder for sugar coating.

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TC-5® (ヒプロメロース)

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TC-5®

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▲ TC-5®(hypromellose)  
 < Old pharmaceutical name: hydroxypropyl methylcellulose:  
 Film-coating has been developed as for the Undercoat of frosting in the 1950s, as then, in the early 1970s new dosage form has appeared in film-coated tablets. Discussed the increased productivity and cost savings since the rational prescription of the drug, aiming to further consider the Bioavailability of the drug and now film-coated golden age marks has arrived.  
 TC-5® are undertaken in the film coating developed early in 1963, hypromellose (hydroxypropyl methylcellulose) developed as a base, and then continuous quality improvement. At present, Japan and grew up on the water soluble film coating cannot do without in the world wide.  
 TC-5®, to provide features such as "no interactions with drugs" "excellent stability" "non-ionic" as a binder is perfect material.  
 Has also been used as well in recent years, from the mad cow disease problem instead of gelatin capsules for pretreatment.

[PDF file \(1.25 MB\)](#)  
 Access code is required.

**TC-5®** Water soluble film coating  
 (Japan Pharmacopoeia hypromellose; degree of substitution type: 2910)

	Varieties	Degree of substitution type	View viscosity (mPa / s) *
TC-5	E		3
	M	2910	4.5
	R		6
	S		15

Note) in a 20 ° C \* 2% aqueous solution viscosity (Japan pharmacopoeia).  
 TC-5® is a versatile as a binder.

**SB-4** sugar-coating binders  
 (Japan Pharmacopoeia hypromellose; degree of substitution type: 2208)

	Varieties	View viscosity (mPa / s) *
SB-4	SB-4	4

Note) in a 20 ° C \* 2% aqueous solution viscosity (Japan pharmacopoeia).

**METOLOSE® SM-4** granules for water soluble film coating  
 (Japan Pharmacopoeia methyl cellulose)

	Varieties	View viscosity (mPa / s) *
SM-4	SM-4	4

Note) in a 20 ° C \* 2% aqueous solution viscosity (Japan pharmacopoeia).  
 SM-4 the form of yours as a binder.

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