Product Specifications

General name	Hypromellose			
Туре	60SH	65SH	90SH	Method
Substitution type	2910	2906	2208	
Identification A. — E.*	Conforms			USP
Viscosity (mPa·s)*	See table below			USP
pH*	5.0 — 8.0			USP
Appearance of solution**	Conforms			EP
Loss on drying*	Not more than 5.0%			USP
Residue on ignition*	Not more than 1.5%			USP
Heavy metals*	Not more than 20 ppm			USP
Methoxy content*	28.0 — 30.0%	27.0 — 30.0%	19.0 — 24.0%	USP
Hydroxypropoxy content*	7.0 — 12.0%	4.0 — 7.5%	4.0 — 12.0%	USP
Residual solvents***		Conforms		USP

^{*} Harmonized items among the USP, EP and JP.

Each type of METOLOSE® includes several viscosity grades as shown below. METOLOSE® SR is designed for hydrophilic matrix tablets. (See separate brochure for information on METOLOSE® SR)

● Available grades and viscosity specifications ○: METOLOSE®, SR: METOLOSE® SR

	SH		Labeled	USP Specification (mPa·s)*1	
60SH	65SH	90SH	Viscosity		
0	0		50	40.0 — 60.0	
		SR	100	80 — 120	
	0		400	320 — 480	
0	0	O, SR	4000	3000 — 5600	
0		4	10000	7500 — 14000	
		O, SR	15000	11250 — 21000	
		O, SR	100000	75000 — 140000	

^{*1} Viscosity ranges are 80% - 120% for labeled viscosity less than 600 mPa·s and 75% - 140% for labeled viscosity 600 mPa·s and higher, respectively. (Viscosity is harmonized iten among the USP, EP and JP).

^{**} Specific local attribute in EP.

^{***} Specific local attribute in USP.

General name	Methylcellulose	
Туре	SM	Method
Identification (A-C)	Conforms	USP
Identification (A-E)	Conforms	EP
рН	5.0 - 8.0	EP
Viscosity	See table below	USP&EP
Loss on drying	Not more than 5.0%	USP
Residue on ignition	Not more than 1.5%	USP
Heavy metals	Within the limit (Not more than 0.001%)	
Appearance of solution	Conforms	
Residual solvents	Conforms	USP
Methoxy content	oxy content 27.5 — 31.5%	

● Available grades and viscosity specifications ○: METOLOSE®

SM	Labeled Viscosity	USP Specification (cP)*1	EP Specification (mPa•s)*2
0	4	3.2 — 4.8	3.2 - 4.8
0	15	12.0 — 18.0	12.0 — 18.0
0	25	20.0 - 30.0	20.0 - 30.0
0	100	80 — 120	80 — 120
0	400	300 — 560	320 — 480
0	1500	1125 — 2100	1125 — 2100
0	4000	3000 — 5600	3000 — 5600

^{*1} USP Viscosity is 80% - 120% for labeled viscosity 100 cP and lower, and 75% - 140% for labeled viscosity over 100 cP, respectively.
*2 EP Viscosity is 80% - 120% for labeled viscosity less than 600 mPa·s, and 75% - 140% for labeled viscosity 600 mPa·s and higher, respectively.