



Product Tables

PHARMACOAT Hypromellose (Low viscosity) – Film coating / Wet granulation binder

Description	Grade	Labeled viscosity (cP)	Methoxyl (%)	Hydroxy-propoxyl (%)	Mean particle size (μm)	Typical application
Hypromellose USP (Substitution type 2910) Hypromellose PhEur Hydroxypropylmethylcellulose 2910 JP	603	3	29	9	60	Wet granulation binder
	606	6				Regular film coating
	615	15				Film coating, greater film strength
	603W	3				White grade of 603
	645W	4.5				White grade, short processing
	606W	6				White grade of 606
	606G	6			200	Granular grade of 606 (disperse quickly)
Hypromellose USP (Substitution type 2208) Hypromellose PhEur Hydroxypropylmethylcellulose 2208 JP	904	4	23	6	60	Sugar coating binder

METOLOSE Methylcellulose / Hypromellose – Thickening agent

Description	Grade	Labeled viscosity (cP)	Methoxyl (%)	Hydroxy-propoxyl (%)	Thermal-gelation point (°C)	Mean particle size (μm)	Typical application
Methylcellulose USP / PhEur / JP	SM-4	4	29	—	55	70	Granule coating (less sticky)
	SM-15	15					Thickening agent Bulk laxative
	SM-25	25					
	SM-100	100					
	SM-400	400					
	SM-1500	1500					
	SM-4000	4000					
Hypromellose USP (Substitution type 2910) Hypromellose PhEur Hydroxypropylmethylcellulose 2910 JP	60SH-50 60SH-4000 60SH-10000	50 4000 10000	29	9	75	70	Thickening agent
Hypromellose USP (Substitution type 2906) Hypromellose PhEur Hydroxypropylmethylcellulose 2906 JP	65SH50 65SH-400 65SH-1500 65SH-4000	50 400 1500 4000	29	7	75	70	Thickening agent
Hypromellose USP (Substitution type 2208) Hypromellose PhEur Hydroxypropylmethylcellulose 2208 JP	90SH-100 90SH-400 90SH-4000 90SH-15000 90SH-100000	100 400 4000 15000 100000	23	8	85	70	Thickening agent

METOLOSE SR Hypromellose, substitution type 2208 – Hydrophilic matrix agent

Description	Grade	Labeled viscosity (cP)	Methoxyl (%)	Hydroxy-propoxyl (%)	Mean particle size (μm)	Typical application
Hypromellose USP (Substitution type 2208) Hypromellose PhEur Hydroxypropylmethylcellulose 2208 JP	90SH-100SR 90SH-4000SR 90SH-15000SR 90SH-100000SR	100 4000 15000 100000	23	10	50	Sustained release

L-HPC Low-Substituted Hydroxypropyl Cellulose – Disintegrant with binding capability

Description	Grade	Hydroxy-propoxyl (%)	Mean particle size* ¹ (μm)	Particle type	Typical application
Low-Substituted Hydroxypropyl Cellulose NF Low Substituted Hydroxypropylcellulose JP	LH-11	11	50	Highly fibrous	Direct compression (anti-capping)
	LH-21		40	Moderately fibrous	Regular grade (dry mixing, wet granulation)
	LH-22	8			Lower hydroxypropoxy (sometimes better disintegration)
	LH-B1	11	50	Non fibrous	Direct compression, high-load formulations
	LH-31	11	20	Micronized	Micronized grade (pellet extrusion, layering)
	LH-32	8			

*¹ Laser diffraction method.

HPMCP Hypromellose Phthalate – Enteric coating agent (solvent based coating)

Description	Grade	Labeled viscosity (cSt)	Nominal Phthalyl Content (%)	Mean particle size (μm)	Dissolving pH* ³	Typical application
Hypromellose Phthalate NF / PhEur Hydroxypropylmethylcellulose Phthalate JP	HP-55	40	31* ¹	1000	≥5.5	Regular grade
	HP-55S	170			≥5.0	Greater film strength
	HP-50	55	24* ²		≥5.0	Soluble at Lower pH

*¹ Meets substitution type 200731 in the JP monograph.

*² Meets substitution type 220824 in the JP monograph.

*³ McIlvaine's buffer (citric acid-Na₂HPO₄)

Shin-Etsu AQOAT Hypromellose Acetate Succinate NF – Enteric coating agent (multiple coating methods)

Description	Grade	Labeled viscosity (mm ² /s)	Acetyl (%)	Succinoyl (%)	Mean particle size (μm)	Dissolving pH* ¹	Typical application
Hydroxypropylmethylcellulose Acetate Succinate JPE USP approval pending	AS-LF	3	8	15	5* ²	≥5.5	Micronized grade (for aqueous coating)
	AS-MF		9	11		≥6.0	
	AS-HF		12	6		≥6.5	
	AS-LG		8	15	1000	≥5.5	Granular grade (for solvent-based coating)
	AS-MG		9	11		≥6.0	
	AS-HG		12	6		≥6.5	

*¹ McIlvaine's buffer (citric acid-Na₂HPO₄)

*² Laser diffraction method.