

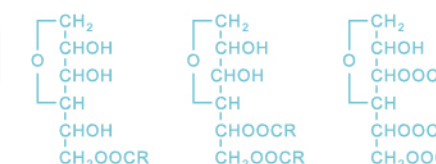
APPENDIX

HINON SERIES

HIPEG SERIES

Hinon® Series

Item Specifications									Item Typical Characteristics					
Product	Composition	Appearance (at 30°C)	Acid Value	Moisture (%)	Sap. Value	Solid Temp. °C	Color (G)	HLB Number	Solubility Tendencies : 25°C, 1-10%					
									Water	Ethanol	Mineral oil	White spirit	Toluene	Paraffin oil
LL-20	Sorbitan Monolaurate	Oily Liquid	10▼	1.5 max	150-160	20 max	5▼	8.6	D	S	S	SH	S	S
SP-40	Sorbitan Monopalmitate	Waxy Solid	10▼	1.5 max	135-155	mp 47-53	5▼	6.7	I	SW	SW	SW	S	SWH
SS-60	Sorbitan Monostearate	Waxy Solid	10▼	1.5 max	140-160	mp 54-59	5▼	4.7	I	SW	SW	SW	S	SWH
LS-80	Sorbitan Monooleate	Oily Liquid	10▼	1.5 max	145-160	5mas	8▼	4.3	I	SW	S	S	S	S
LS-80S	Sorbitan Monooleate	Oily Liquid	6▼	1.0 max	148-158	5max	8▼	4.4	I	SW	S	S	S	S
LS-85	Sorbitan Trioleate	Oily Liquid	10▼	1.5 max	160-190	0max	9▼	1.8	I	SW	S	S	S	S

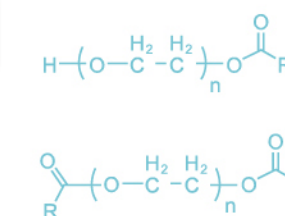


Additional information

D : Dispersible
 DW : Dispersible warmed(±50°C)
 I : Insoluble
 S : Soluble
 SH : Soluble hazed
 SW : Soluble warmed(±50°C)
 SWH : Soluble warm hazed(±50°C)

Hipeg® Series

Item Specifications									Item Typical Characteristics					
Product	Composition	Appearance	Acid Value	Saponification Value	Melting Point(°C)	Cloud Point (1%Aq. sol.)	Specific Gravity at 25°C(a) or 65°C(b)	HLB	Solubility Data				Mineral oil	
									Water	Propylene glycol	Isopropyl alcohol	Isopropyl myristate	55 Vis	330Vis
200ML	PEG 200 Monolaurate	Liquid	5▼	132-142	<5	15°C	0.98(a)	9.3	D	I	S	S	PS	I
200DL	PEG 200 Dilaurate	Liquid	10▼	176-186	<9	<5°C	0.95(a)	5.9	D	I	S	S	S	S
400ML	PEG 400 Monolaurate	Liquid	5▼	86-96	12	68°C	1.02(a)	13.0	S	I	S	PS	I	I
400DL	PEG 400 Dilaurate	Liquid	10▼	127-137	18	29°C	0.99(a)	9.7	D	I	S	S	I	I
600ML	PEG 00 Monolaurate	Liquid	5▼	64-74	23	68°C	1.05(a)	14.6	S	I	S	I	I	I
600DL	PEG 600 Dilaurate	Soft Solid	10▼	102-112	24	30°C	0.98(b)	11.7	D	I	S	S	I	I
200MS	PEG 200 Monostearate	Solid	5▼	120-129	31	<5°C	0.94(b)	8.1	DH	I	S	S	I	I
200DS	PEG 200 Distearate	Solid	10▼	153-162	34	<5°C	0.91(b)	4.8	DH	I	S	S	S	S
400MS	PEG 400 Monostearate	Solid	5▼	83-92	32	<5°C	0.98(b)	11.7	DH	I	S	S	I	I
400DS	PEG 400 Distearate	Solid	10▼	115-124	36	<5°C	0.94(b)	8.5	DDH	I	S	S	S	S
600MS	PEG 600 Monostearate	Solid	5▼	61-70	37	55°C	1.00(b)	13.5	S	PS	S	PS	I	I
600DS	PEG 600 Distearate	Solid	10▼	93-102	39	<5°C	0.97(b)	10.7	DH	I	S	S	I	I
200MO	PEG 200 Monooleate	Liquid	5▼	115-124	<-15	<5°C	0.97(a)	8.2	D	I	S	S	S	I
200DO	PEG 200 Dioleate	Liquid	10▼	148-158	<-15	<5°C	0.94(a)	5.0	D	I	S	S	S	S
400MO	PEG 400 Monooleate	Liquid	5▼	80-89	<10	65°C	1.01(a)	11.6	D	I	S	PS	I	I
400DO	PEG 400 Dioleate	Liquid	10▼	118-122	<7	<5°C	0.98(a)	8.3	D	I	S	S	S	I
600MO	PEG 600 Monooleate	Liquid	5▼	60-69	23	80°C	1.04(a)	13.6	S	I	S	I	I	I
600DO	PEG 600 Dioleate	Liquid	10▼	92-102	19	10°C	1.00	10.6	D	I	S	S	I	I



Additional information

D : Dispersible
 DH : Dispersible warmed(Hot)
 I : Insoluble
 PS : Partially soluble
 S : Soluble
 SH : Soluble(Hot)