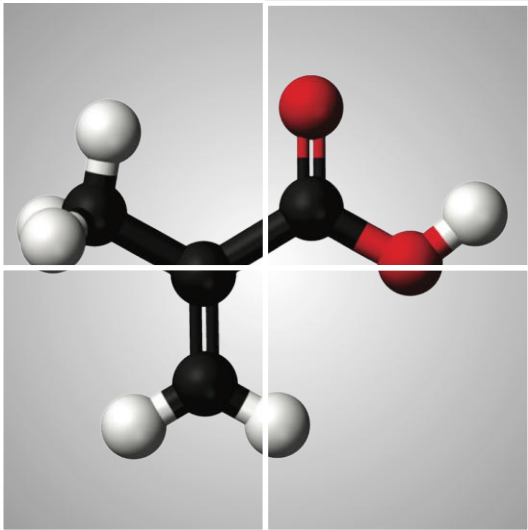
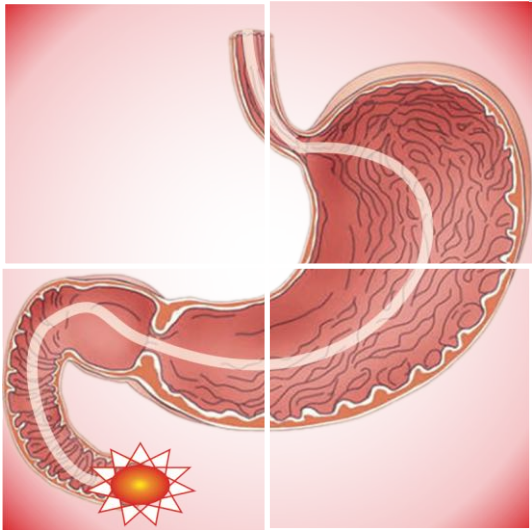




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## PRODUCT RANGE



DRUGCOAT SERIES	MONOGRAPHS	PHYSICAL FORM	DISSOLUTION PROPERTIES
<b>ENTERIC FORMULATION</b>			
<b>AQUEOUS BASE</b>			
DRUGCOAT L 30D	USP/NF: Methacrylic Acid And Ethyl Acrylate Copolymer Dispersion Ph. Eur.: Methacrylic Acid-Ethyl Acrylate Copolymer(1:1) Dispersion 30%	Aqueous Dispersion 30%	
DRUGCOAT L 100-55	USP/NF: Methacrylic Acid And Ethyl Acrylate Copolymer Ph. Eur.: Methacrylic Acid- Ethyl Acrylate Copolymer (1:1) Type A	Powder	Dissolve above pH 5.5
DRUGCOAT L 100-55D	USP/NF: Partially-Neutralized Methacrylic Acid & Ethyl Acrylate Copolymer Ph. Eur.: Methacrylic Acid- Ethyl Acrylate Copolymer (1:1) Type B	Powder	
DRUGCOAT FS 30D		Aqueous Dispersion 30%	Dissolve above pH 7.0
<b>NON AQUEOUS BASE</b>			
DRUGCOAT L 100	USP/NF: Methacrylic Acid And Methyl Methacrylate Copolymer (1:1)	Powder	Dissolve above pH 6.0
DRUGCOAT L 12.5	Ph. Eur.: Methacrylic Acid – Methyl Methacrylate Copolymer (1:1)	Organic Solution 12.5%	
DRUGCOAT S 100	USP/NF: Methacrylic Acid And Methyl Methacrylate Copolymer (1:2)	Powder	Dissolve above pH 7.0
DRUGCOAT S 12.5	Ph. Eur.: Methacrylic Acid – Methyl Methacrylate Copolymer (1:2)	Organic Solution 12.5%	
<b>TASTE MASKING &amp; PROTECTIVE FORMULATION</b>			
DRUGCOAT E 100	USP/NF: Amino Methacrylate Copolymer	Granules	Dissolve up to pH 5.0
DRUGCOAT E PO	Ph. Eur.: Basic Butylated Methacrylate Copolymer	Powder	
DRUGCOAT E 12.5		Organic Solution 12.5%	
<b>SUSTAINED RELEASE FORMULATION</b>			
DRUGCOAT RL 100	USP/NF: Ammonio Methacrylate Copolymer, Type A	Granules	
DRUGCOAT RL PO	Ph. Eur.: Ammonio Methacrylate Copolymer, Type A	Powder	
DRUGCOAT RL 12.5		Organic Solution 12.5%	
DRUGCOAT RS 100	USP/NF: Ammonio Methacrylate Copolymer, Type B	Granules	pH-independent swelling
DRUGCOAT RS PO	Ph. Eur.: Ammonio Methacrylate Copolymer, Type B	Powder	
DRUGCOAT RS 12.5		Organic Solution 12.5%	
DRUGCOAT NE 30D	USP/NF: Ethyl Acrylate And Methyl Methacrylate Copolymer Dispersion Ph. Eur.: Polyacrylate Dispersion 30%	Aqueous Dispersion 30%	

Enteric Formulations

Protective Formulations

Sustained-Release Formulations

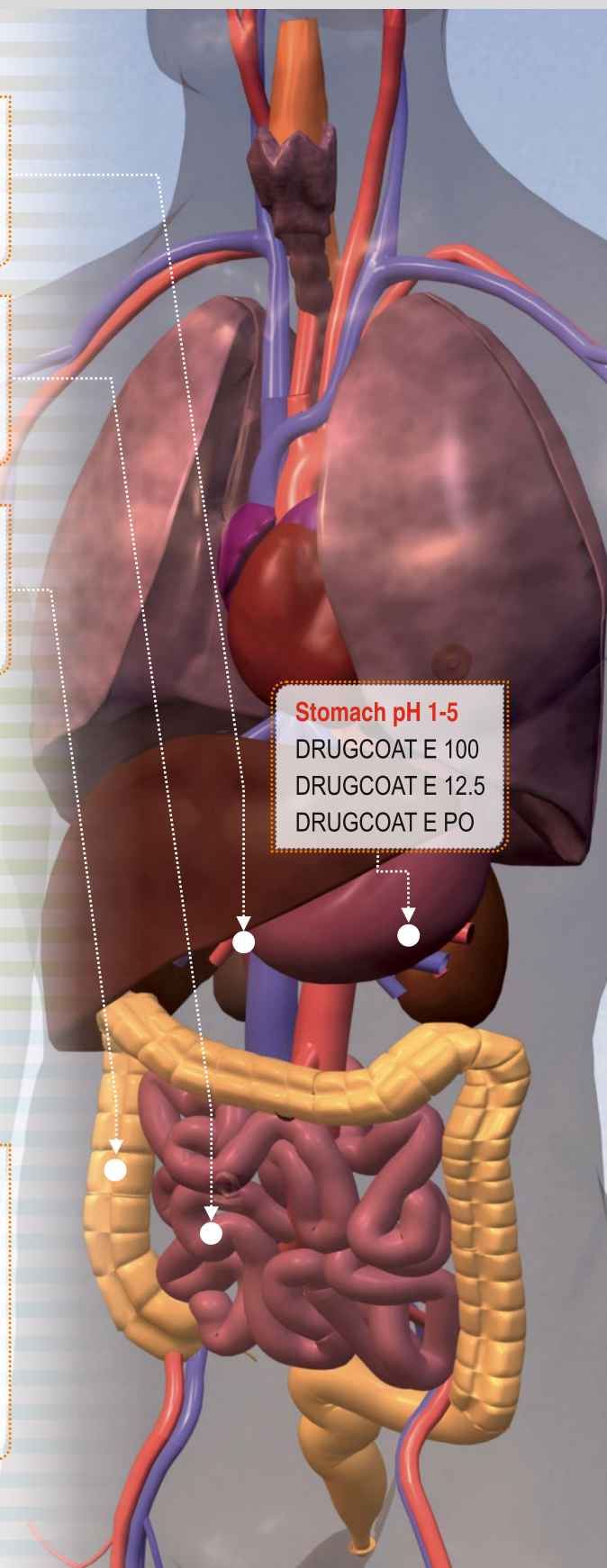
**Duodenum pH>5.5**  
 DRUGCOAT L 30 D  
 DRUGCOAT L 100-55  
 DRUGCOAT L 100-55D

**Jejunum pH 6-7**  
 DRUGCOAT L 100  
 DRUGCOAT L 12.5

**Colon pH > 7**  
 DRUGCOAT S 100  
 DRUGCOAT S 12.5  
 DRUGCOAT FS 30D

**Stomach pH 1-5**  
 DRUGCOAT E 100  
 DRUGCOAT E 12.5  
 DRUGCOAT E PO

**Time controlled release pH independent**  
 DRUGCOAT RL PO  
 DRUGCOAT RL 100  
 DRUGCOAT RL 12.5  
 DRUGCOAT RS PO  
 DRUGCOAT RS 100  
 DRUGCOAT RS 12.5  
 DRUGCOAT NE 30D





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**CIN:** L24296GJ1994PLC021524



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# APION®

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 **DRCOAT®**  
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- THICKENING AND GELLING AGENTS

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Carbomer at its best



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## APION T Series

### TASTE MASKING – Cross Linked Polymers

Grade	Generic Name	Physical Form	Functional Group	Ionic Form	Moisture Content (% w/w)	Application
APION T51	Polacrilex Resin	Powder	-COO <sup>-</sup>	H <sup>+</sup>	≤ 5.0	Taste Masking of Bitter Drugs, Dextromethorphan HBr, Pseudoephedrine HCl, Norfloxacin, Ofloxacin, Dicyclomine HCl Key raw material for Nicotine Polacrilex USP Stabilization of Vitamin B <sub>12</sub>
APION TA42	Weak Cation Exchange Resin	Powder	-COO <sup>-</sup>	K <sup>+</sup>	≤ 10.0	Taste Masking of Bitter drugs like Azithromycin di-Hydrate
APION TC42	Weak Cation Exchange Resin	Powder	-COO <sup>-</sup>	H <sup>+</sup>	≤ 5.0	Taste Masking of Bitter drugs like Cefpodoxime proxetil
APION DT44	Polacrilin Potassium USP	Powder	-COO <sup>-</sup>	K <sup>+</sup>	≤ 10.0	Taste Masking of Bitter drug like Ciprofloxacin HCl, Roxithromycin, Chloroquine phosphate, Zinc Gluconate, Pyrimethamine, Tadalafil, Zinc sulphate

## APION D Series

### DISINTEGRANT – Polacrilin Potassium

Grade	Generic Name	Physical Form	Functional Group	Ionic Form	Moisture Content (% w/w)	Application
APION DF44	Polacrilin Potassium USP	Powder	-COO <sup>-</sup>	K <sup>+</sup>	≤ 10.0	Superfast Tablet Disintegration
APION DM44	Polacrilin Potassium USP	Powder	-COO <sup>-</sup>	K <sup>+</sup>	≤ 10.0	Tablet Disintegration
APION DT44	Polacrilin Potassium USP	Powder	-COO <sup>-</sup>	K <sup>+</sup>	≤ 10.0	Tablet Disintegration / Taste Masking

## APION A Series

### ACTIVE PHARMACEUTICAL INGREDIENT – Coming Soon

Grade	Generic Name	Physical Form	Functional Group	Ionic Form	Moisture Content (% w/w)	Application
APION A04	Sodium Polystyrene Sulphonate USP	Buff / Brown Powder	-SO <sub>3</sub> <sup>-</sup>	Na <sup>+</sup>	≤ 10.0	Sustained / Delayed Release of Drugs like Dextromethorphan HBr, Pseudoephedrine HCl Treatment of Hyperkalemia
APION A48	Calcium Polystyrene Sulphonate BP/JP	Cream Powder	-SO <sub>3</sub> <sup>-</sup>	Ca <sup>++</sup>	≤ 10.0	Sustained / Delayed Release of Drugs like Dextromethorphan HBr, Pseudoephedrine HCl Treatment of Hyperkalemia
APION A50	Cholestyramine Resin USP	White Powder	-N <sup>+</sup> R <sub>3</sub>	Cl <sup>-</sup>	≤ 12.0	Cholesterol Reduction



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**Rewards of Research**





### Benefits of **DRCOAT**

- **DRCOAT** - The complete system for Functional and Non Functional Coating.
- **DRCOAT** - "THE QUALITY" meet the international standards.
- Customized Development of ready-to-use products by using three decades of POLYMER EXCELLENCE.
- World Class F&D SUPPORT from start to end.
- Computerized color matching ensures batch to batch consistency.
- Excellent technical assistance on 24 X 7 basis.
- **DRCOAT** based on HIGH QUALITY POLYMERS for enteric series products are manufactured in our WHO GMP compliant plant.

# PRODUCT RANGE

PRODUCTS	DESCRIPTION	PHYSICAL FORM	RECOMMENDED SOLVENT SYSTEM	RECONSTITUTION LEVEL	USAGE LEVEL / WEIGHT GAIN
ENTERIC COATING PRODUCTS					
DRCOAT ECS	Methacrylic Acid Copolymer Based Enteric Coating System	Powder	IPA: DM (95:5)	10-11% w/w	6-8 %
DRCOAT ECA	Methacrylic Acid Copolymer Based Enteric Coating System	Powder	D.M. Water	18-20% w/w	7-9%
DRCOAT EZ	Methacrylic Acid Copolymer Based Enteric Coating System	Aq. Dispersion	Ready to Spray	Ready to Spray	8-10% on Dry polymer base
IMMEDIATE RELEASE FILM COATING PRODUCTS					
DRCOAT FCS	HPMC Based Film Coating System	Powder	IPA: MDC(50:50)	5-6 % w/w	2 - 2.5 %
DRCOAT FCA	HPMC Based Film Coating System	Powder	DM Water	11-12% w/w	2 - 2.5 %
DRCOAT FCA II	HPMC Based Film Coating System	Powder	DM Water	11-12% w/w	2 - 2.5 %
DRCOAT FCA III	HPMC Based Film Coating System	Powder	DM Water	15-20% w/w	2 - 2.5 %
DRCOAT FCU	HPMC Based Film Coating System	Powder	IPA:DM(80:20) IPA:MDC(50:50) DM Water	5-6 % w/w 11-12% w/w	2 - 2.5 %
DRCOAT HSP	PVA Based Film Coating System	Powder	DM Water	Up to 20 % w/w	2.5 - 3 %
DRCOAT SEAL	HPMC Based Seal Coating System	Powder	IPA: MDC(60:40)	5-6 % w/w	2 - 3%
MOISTURE BARRIER PRODUCTS					
DRCOAT MB-S	Solvent Based Moisture Barrier Coating System	Powder	IPA: MDC(50:50)	5-6 % w/w	3 - 4 %
DRCOAT MB-A	Aqueous Based Moisture Barrier Coating System	Powder	DM Water	11-12% w/w	3 - 4 %
DRCOAT HSP <sup>+</sup>	PVA Based Moisture Barrier Coating System	Powder	DM Water	Up to 20 % w/w	3 - 4 %
SPECIALTY PRODUCTS					
DRCOAT PEARL	MICA Based Film Coating System	Powder	IPA: MDC(50:50) DM Water	5-6 % w/w 11-12% w/w	2 - 2.5 %
DRCOAT DUO	MICA Based Film Coating System	Powder	IPA: MDC(50:50) DM Water	5-6 % w/w 11-12% w/w	2 - 2.5 %
DRCOAT GLOW	HPMC Based Film Coating System	Powder	IPA: MDC(50:50) DM Water	5-6 % w/w 11-12% w/w	1 - 2 %
DRCOAT CLR	Transparent Film Coating System	Powder	IPA: MDC(50:50) DM Water	5-6 % w/w 11-12% w/w	2 - 2.5 %
DRCOAT FLV	Flavoured Film Coating System	Powder	IPA: MDC(50:50) DM Water	5-6 % w/w 11-12% w/w	2 - 2.5 %





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# AQUAPOL<sup>®</sup> SF-1





AQUAPOL® SF-1 is lightly cross-linked acrylic polymer 30% dispersion. AQUAPOL® SF-1 polymer is an acrylic emulsion having ability to suspend, stabilize, thicken and enhance the appearance of high surfactant based cleansing products. It is mainly used for clear formulation containing high levels of Surfactants. AQUAPOL® SF-1 also enhances the pearlescent appearance of surfactant based formulation.

## DESCRIPTION

- INCI Name: Acrylates copolymer
- Milky, White Polymeric dispersion in water
- Contains 30% active polymer
- Low characteristic order

## FEATURES AND BENEFITS

- Easy to Use Liquid Form
- Suspension and stabilization
- Clear Formulation
- Thickening and flow control
- pH Flexibility
- Synergistic Thickening with Salt
- Enhance Pearlescent appearance

## APPLICATION

AQUAPOL® SF-1 is used specifically for efficient suspending and stabilizing, as well as thickening properties of surfactant based clear cleansing products. For example,

- Clear Shampoo and Bath Gel
- Hand Sanitizer
- Hand Wash
- Facial Cleanser
- Skin Scrubs
- Face Wash

## STORAGE

Store at ambient room temperature condition, 5-30 °C, DO NOT FREEZE. Store in well closed tight containers.

## SHELF LIFE

12 months

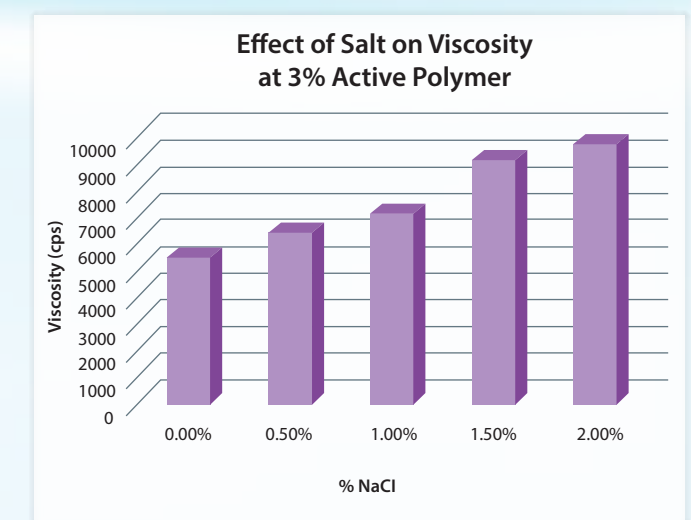
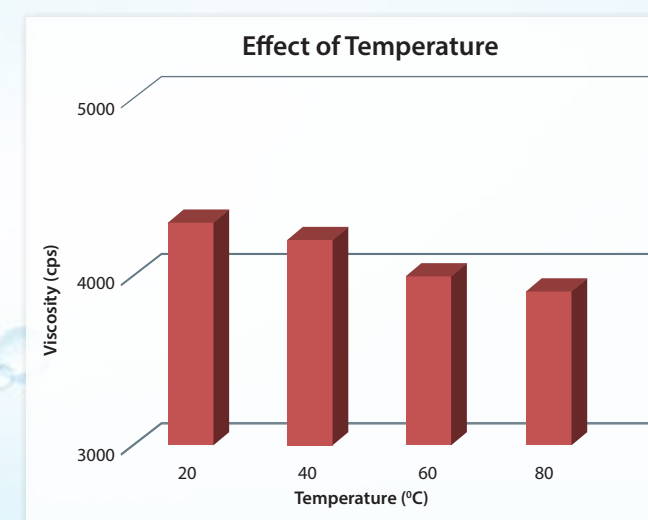
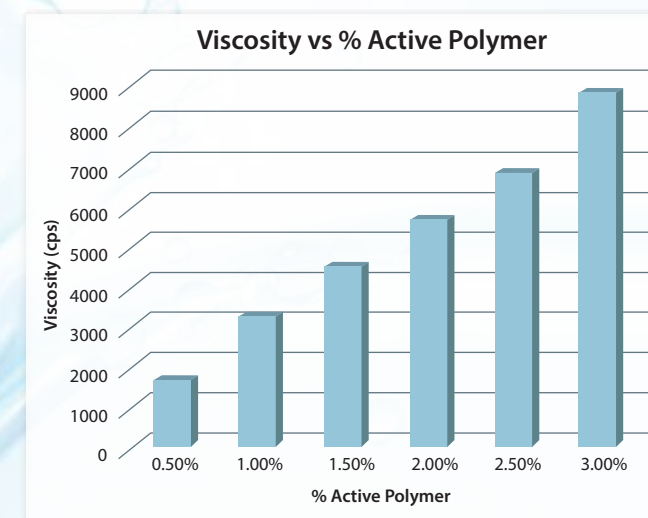
## PACKAGING

60 kg net in HDPE carboy.

## TYPICAL PROPERTIES

APPEARANCE	Milky white Dispersion
ODOR	Low Characteristic Odor
IONIC NATURE	Anionic
TOTAL SOLIDS	30% w/w
pH	2.2 – 3.8
VISCOSITY	2 - 25 mPa.s
RESIDUAL ETHYLACRYLATE	<1.0 ppm

## TECHNICAL DATA







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# AQUAPOL<sup>®</sup>

## SF-22



AQUAPOL SF-22 is anionic hydrophobically modified alkali-soluble acrylic polymer emulsion (HASE) thickener. AQUAPOL SF-22 is an efficient thickener for difficult to thicken surfactant systems. It is cold processable low viscosity liquid which provide ease of handling and reduce the total manufacturing time. It contains 30% active polymer which thickens instantly upon neutralization.

## DESCRIPTION

- INCI Name: Acrylates/Steareth-20 Methacrylate Copolymer
- Milky, White polymeric Dispersion in water
- Contains 30% active polymers
- Stable in pH 5.5 to 12 formulation

## FEATURES AND BENEFITS

- Easy to use liquid form
- Suitable for sulfate free surfactant system
- Better for difficult to thick surfactant system
- Ideal for clear formulation
- Excellent suspending power
- Smooth flow control
- Shear thinning
- Foam stabilizer
- High Salt tolerance
- Reduce harshness of surfactant
- Emulsion stabilizer
- Improve visual impact of pearlizing agents

## APPLICATION

Formulations like

- Shampoo
- Body cleanser
- Face cleanser
- Hair gel
- Lotion
- Cream
- Foaming wash product
- Liquid soap

## STORAGE

Store at ambient room temperature condition, 5-30 °C, DO NOT FREEZE. Store in well closed containers.

## SHELF LIFE

18 months

## PACKAGING

60 kg net in HDPE carboy

## TYPICAL PROPERTIES

APPEARANCE	Milky white low viscosity liquid
CHEMISTRY	HASE polymer
IONIC NATURE	Anionic
SHEAR THINNING	Very high
SOLID CONTENT	30% w/w
pH (as supplied)	2.2 – 3.2
VISCOSITY (as supplied)	<100 cps

## TECHNICAL DATA

