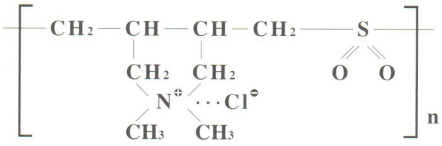
50 Harrison Street Suite 310A
Hoboken USA
P : 201-604-6231
F : 201-604-6266
Email : info@ghenmaterials.com

GHEN MATERIALS

TECHNICAL DATA SHEET

PAS –A1, PAS-A5
Water-soluble cationic polymer

PAS-A1 and PAS-A5 are copolymer of quaternary ammonium salt of diallyldimethylammonium chloride (DADMAC) / sulfur dioxide. It is designed for receivable coating formulations for ink jet paper. PAS-A1, A5 will provide ink jet paper a high degree of color saturation and light fastness. PAS-A1, A5 demonstrate excellent stability in acidic conditions.



Characteristic

- High cationic density
- Excellent stability (keep cationic density) at acidic condition
- High water-solubility
- Reactivity with epoxy, urethane functional group

Typical property

	PAS-A1	PAS-A5
Ionic Characteristic:	Cationic	
Solid Content:	24%	40%
Molecular Weight:	5,000	4,000
Solubility:	Soluble in water	
pH (5% aq solution)	2	3

Application

- Receptive coating agent for ink-jet printing substrate
  - Imparting excellent water-fastness, light-fastness property
- Sizing agent in neutral paper making process
- Surface leveling agent in electric plating process agent
  - Impart excellent leveling, covering and macro throwing power.
- Crosslinking agent for waterborne system

Sample formulation for receptive coating for ink-jet paper (matt-type)

Component	Concentration
Silica (Specific surface area 290m^2/g. Average particle size = 3.9μm)	10%
Polyvinyl Alcohol - 4% solution (Degree of polymerization ≈ 1700)	3%
PAS-A5	5%
Water	82%

Packaging: PAS-A1 and PAS-A5 are available in 8 oz. samples, and net 18kg pail