



Uniphos Chemicals

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XF-321S (HPMA)

XF-321S(HPMA) is a solvent based Poly Maleic Acid, developed as a calcium carbonate inhibitor and a multifunctional formulation support agent in industrial water systems and other related applications.

Abbreviation	PMA or HPMA
Chemical Name	Poly Maleic Acid, or Homopolymer of Maleic Acid
Molecular Formula & Molecular Structure	
Commercial Form	Aqueous Solution
Molecular Weight	600-1500
Recommended Uses	XF-321S can be used in combination with phosphonates to improve performance and reduce phosphonate levels and thus provide a superior alternative to acrylate-based polymers.

Typical Properties

Appearance	Clear amber liquid
Active acid (%)	48-52
pH (as is) @ 25°C	≤2.0
Specific gravity (20°C, g/cm³)	1.16-1.22
Viscosity @ 25 °C, cps	10.0-60.0

Packaging

210L HDPE Drum; 1000L IBC(tote); Isotank