



## HC-321(AA/AMPS) ACRYLIC ACID/AMPS COPOLYMER

HC-321 is a copolymer of acrylic acid and AMPS monomer. It has significant charge density which gives them better dispersing properties than other polymers. The sulfonic group allows greater penetration into the solution (hydrophilic character) and provides high charge density that allows for great particle charge interaction.

HC-321 has multiple functionality, causing improved scale inhibition of  $\text{CaCO}_3$  or  $\text{CaSO}_4$  and also dispersion of mud and metal oxides as well as providing good phosphonate stabilization.

### Applications:

Cooling water system: Scale inhibitor and dispersant for calcium carbonate, calcium sulfate, calcium phosphonate, silt & clay, iron oxide and zinc stabilizer.

Recommended to use in stress cooling system of high calcium levels or high cycles of concentration.

Widely used in refinery plant, chemical plant, drilling oil and steel mills...etc.

### Properties:

Appearance	Colorless to pale yellow liquid
Typical active content:	$\geq 30\%$
Specific gravity at (20°C)	$1.13 \pm 0.02$
pH, 1% solution at 25°C	2.0 - 4.0
Iron, ppm	/
Chloride, %	/
Solubility in water	Complete

### Packing:

250kg per PE drum

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