AMPS®
Specialty Monomer

Atvantic Finechem Pvt. Ltd. **(AFPL)** has state of art fully automated production facility to meet international standards in the manufacturing of specialty monomers, polymers and cellulose derivatives. AFPL is aiming towards servicing the domestic as well as an export market, thus complementing the "MAKE IN INDIA" initiative and empowering sustainable growth for a safer and bright future. Infrastructure and technology, combined with the experience and expertise of AFPL, enable us to consistently meet the increasing demand of vital industries.

Our Maxim - **"Pursuit Of Excellence"**- is encapsulated not only in the product that we manufacture and the superior process we adopt, but also amply demonstrated in our penchant for innovation, technology leadership, employee engagement, and professional management, transparent governance and inclusive growth. Pursuing our passion for continuous improvement, we will seize each movement as an opportunity to create great value. We combine process chemistry competence with a scale-up engineering competence for creating a sustainable future.

AMPS is a register trademark of **AFPL.**

The entire complex of AFPL is built upon 60,000 sq meter land area and integrates production facilities, technical competence center, fully equipped laboratory, ETP, and 66 KVA substation for uninterrupted power supply. The company has set up full fledged state of the art polymer plant and cellulose derivative plant with fully DCS operated facilities. It is India's one of the leading specialty monomer, polymer and cellulose derivative manufacturing facility.

Plant is located at DAHEJ GIDC , which is Petroleum, Chemical and Petrochemicals Investment Region (PCPIR) notified by Gujarat Government which provides ample infrastructure for smooth plant operation and ideal connectivity by road, rail & west cost sea port i.e Hazira, Nhava Sheva, Mundra, Dahej, Ankleshwar (ICD)

Atvantic

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Amplifying Polymer Performance

AMPS®
Specialty Monomer

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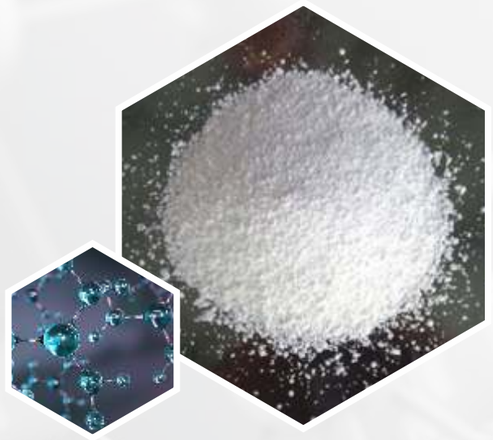
Amplifying Polymer Performance:

AMPS monomer is a highly reactive, hydrophilic, sulphonic acid acrylic monomer capable of imparting a number of distinctive, high performance characteristics to a wide variety of ion-containing polymers and reaction products. Due to its high level of purity and reactivity, the incorporation of small quantities of AMPS monomer during polymerization enables processors in diverse applications to formulate products with enhanced:

- Hydrolystic stability
- Inhibition of divalent cation precipitation
- Thermal stability
- Mechanical shear stability
- Resistance to hydrolysis
- Ionic character
- Rheology control
- Solubility
- Lubricity

AMPS is available as a free-flowing, low-dusting granular solid or as an aqueous sodium salt solution. Its acrylamide structure minimizes chain transfer and permits both high and low molecular weight polymer generation for optimum versatility.



AMPS Monomer Applications:

Oil field:

- Drilling fields and cementing high-pressure and high-temperature wells.
- Enhanced oil recovery
- Hydraulic fracturing
- Scale inhibitor

Water Treatment:

- Cooling Towers and boilers
- Water, industrial and mining effluent treatment

Medical Hydrogel:

- EKG electrodes, transdermal patches
- Coating for medical devices in contact with bloods, bio fluids and human tissue
- Grounding and defibrillator pads
- Wound care, incontinence and neonatal products

Personal care:

- Creams, lotions, soaps, shower gels, sunscreens, hair care products and perfumes
- New and emerging applications: Anti wrinkle patches, blackhead removal, facial cleansers and moisturizers

Coating and Adhesives:

- Latex-based paints
- Pressure sensitive adhesives
- Food packaging adhesives
- Paper and paperboard in contact with dry food

Acrylic Fiber:

- Pigment-dyed fibers
- Printed fabrics
- Sizing agents, fabric treatments

Construction:

- Super plasticizers
- Cement admixtures
- Concrete coatings

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Identification and Physical characteristics:

AMPS:

2-ACRYLAMIDO 2-METHYLPROPANE SULPHONIC ACID
CAS 15214-89-8

AMPS monomer is supplied in a granule or powder form with different grades:

- **AMPS 2300** : PURITY (98% & ABOVE)
- **AMPS 2400** : PURITY (99% & ABOVE)
- **AMPS 2401** : PURITY (99.2 % & ABOVE)
- **AMPS 2404** : PURITY (99.4 % & ABOVE)
- **AMPS 2406** : PURITY (99.5 % & ABOVE)

Chemical property of AMPS:

Molecular Formula	:	C7H13NO4S
Molecular Weight	:	207.24 g mol -1
Acid No	:	265-275 mgKOH/g
Appearance	:	White Granules Solid
Purity	:	>=99.0%
Iron	:	<=10 mg/kg
Water	:	<=0.3%

Packing:

25kg Bag/600 KG conductivity jumbo bag

NaAMPS:

SODIUM SALT OF 2-ACRYLAMIDO 2-METHYLPROPANE SULPHONIC ACID
CAS 5165-97-9

NaAMPS is a 50 wt% aqueous sodium salt solution of different grade.

- **NaAMPS 2403** : Polymer Viscosity (6000-8999 cps)
- **NaAMPS 2405** : Polymer Viscosity (9000-11999 cps)
- **NaAMPS 2407** : Polymer Viscosity (12000-14000 cps)
- **NaAMPS 2501** : Polymer Viscosity (>20,000 cps)

Chemical property of NaAMPS:

Molecular Formula	:	C7H12NO4S.Na
Molecular Weight	:	229.2g mol -1
Appearance	:	Clear & water white to pale yellow, 50% aqueous salt solution
Density	:	1.1 g/cm3 (15.6 C)
Melting Point	:	195 C (383 F; 468 K)
Boiling Point	:	110 C

Packing:

240 kg Drum/1200 kg IBC/ISO Tanker