

## Acrylate Copolymer

### Specification Sheet

**Description:** This polymer is a hydrophobic high molecular weight carboxylated acrylic copolymer. Because acrylate copolymer is anionic, compatibility must be evaluated when formulating with cationic ingredients.

**CAS:** 129702-02-9, 7732-18-5

**INCI Name:** Acrylates octylacrylamide copolymer, water

**Composition:** Acrylates octylacrylamide copolymer, Water, Benzoic Acid, PPG-12 Dimethicone, Acrylic acid, Isobutyl methacrylate, t-Octylacrylamide

**Appearance:** Fine white powder

**Benefits:**

- Excellent film forming polymer that adds water-resistance to creams, sunscreen, and mascara.
- Provides water-proof protection and thickening properties depending on the formula.
- Due to inherent moisture resistance, it can be used in waterproof sunscreens and a variety of protective creams and lotions.

**Use:** Can be mixed into the hot oil phase of formulation, mixes also with glycerin, propylene glycol, alcohol or hot water that has been neutralized (eg. water, TEA 0.5%, 2% acrylates copolymer). Needs to be sprinkled into the solution and well mixed. Prior to adding acrylate copolymer, all oil phase ingredients should also be combined and heated to 80°C/176°F. Acrylate copolymer should then be slowly sifted in using good agitation and mixed for one half hour. Use levels: 2-7%. For external use only.

**Applications:** Color cosmetics, sun & skin protection, hair care products, shaving creams, moisturizers.

**Solubility:** Insoluble in water.

**Preservation:** Preservative-free

**Storage:** Store in a closed container at a dry place at room temperature.

**Country of Origin:** USA

**Raw material source:** Acrylic acid, methacrylic acid, and octylacrylamide



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**Manufacture:** Acrylate copolymer is produced by polymerization of octylacrylamide and one or more monomers consisting of acrylic acid or methacrylic acid.

**Animal Testing:** Not animal tested.

**GMO:** GMO-free (does not contain plant-derived components)

**Vegan:** Does not contain animal-derived components.

**HS Code:** 3208100000