

Modifier for Surfactant Based Cleansing Formulations

BROAD RANGE OF APPLICATIONS

Carbopol® Aqua SF-1 polymer builds high clarity products with yield value. It suspends hydrating capsules and exfoliants in pourable clear gel products and can be used to create:

- Clear shampoos, bath gels and cleansers
- Pearlescent shampoos and washes
- Conditioning products with high molecular weight silicones
- Low pH facial and body scrubs
- Economy personal washes and gels

PROCESSING GUIDELINES FOR CARBOPOL® AQUA SF-1 POLYMER

1. Add Carbopol® Aqua SF-1 polymer to deionized water.
2. Add primary surfactants with gentle mixing.
3. Neutralize to pH 6.2 - 6.8.
4. Add specialty carboxylates, amphoterics, etc.
5. Add UV absorber, EDTA, silicone, cationics, salts, etc.
6. Add pearling ingredients such as mica, EGDS or EGMS.
7. Add fragrance, dye and preservative.
8. Adjust final pH with citric acid solution ("Back-Acid" process).
9. Add sodium chloride to adjust viscosity (if necessary).

Order of addition is very important

EXCELLENT SUSPENSION PROPERTIES

This novel rheology modifier can be used to create products with a wide range of flow properties. It forms high clarity formulations in gel and surfactant systems. Carbopol® Aqua SF-1 polymer has broad compatibility with other raw materials and will help the formulator to create smooth, optimal flow properties in shampoos and body washes.

Clear Shampoo with Microcapsules Formulation

Carbopol® Aqua SF-1 polymer helps build clear products with good yield value. You can easily suspend capsules in transparent, pourable products.

INCI NAME	WEIGHT %
PART A	
Deionized Water	39.80
Acrylates Copolymer (30%)	8.00
Carbopol® Aqua SF-1 Polymer	
Sodium Laureth Sulfate (2 mole, 26%)	24.00
Ammonium Lauryl Sulfate (25%)	10.00
Sodium Hydroxide (18%)	1.80
PART B	
Deionized Water	9.00
Cocamidopropyl Betaine (and)	3.00
Cocamide MEA (34%)	
Cocamidopropyl Morpholine Lactate	2.00
PART C	
Deionized Water	1.00
Ethidium EDTA	0.10
PART D	
D&D(M) Hydantoin / Methylparaben / Propylparaben	1.00
Disphores® DEA-509	0.10
Disphores AGE-527	0.10
Disphores YE-501	0.10

Formulation CAS# 1-026

Salicylic Acid Facial Scrub Formulation

Surfactant compatible formulations that are bright and dazzling, not dull and flat, are easy to create with Carbopol® Aqua SF-1 polymer.

INCI NAME	WEIGHT %
PART A	
Deionized Water	35.35
Acrylates Copolymer (30%)	5.00
Carbopol® Aqua SF-1 Polymer	
Sodium C14-16 Olefin Sulfonate (40%)	15.00
Sodium Hydroxide (18%)	0.75
Citric Acid (50%)	0.80
PART B	
Deionized Water	15.00
Sodium C14-16 Olefin Sulfonate (40%)	10.00
Glycerin	2.00
Salicylic Acid (USP)	2.00
PART C	
Cocamidopropyl betaine (35%)	10.00
Potassium C12-13 Phosphite (40%)	2.00
D&C Red No. 33 (0.1%)	0.10
FD&C Yellow No. 6 (0.1%)	0.20
Jojoba Beads	1.00
Jojoba Beads	1.00

Formulation CAS# 1-010

For specific information on preparation and properties of example formulations, go to www.carbopol.com.

noveon
The Specialty Chemicals Innovator™