

## POLYQUATERNIUM-22

INCI Polyquaternium-22  
CAS 53694-17-0

### SPECIFICATION

Aspect Viscous liquid  
Color Colorless to light yellow

### GENERAL INFORMATION

Polyquaternium-22 (PQ22) is a quaternary ammonium compound, which is considered as safe for use in cosmetics and personal care products.

Polyquaternium-22 is extensively used as a cationic conditioner for haircare, as it helps to make hair easier to straighten and manage. It supports the discipline for curls.

### FORMULATION

PQ22 in hair products helps to give hair a shiny, silky softness, makes it slick and easy to comb when wet.

It is compatible with most anionic and amphoteric surfactants and provides superior conditioning properties to products with extreme pH ranges. Therefore, it is possible to use PQ-22 in products such as relaxers, bleaching treatments, dyes, and permanent waves. It can contribute to luster.

PQ22 contributes to shine and a soft, silky feel but also supports for a rich, pleasant, creamy foam in shampoo formulations.

Recommended percentages:

Hair care, 0.1-3%  
Skin care, 1-2%.

In most cases PQ22 must be dissolved in water before adding to the application. Its dissolution is usually rapid. Increasing the level of betaine will help to improve transparency in the formulation of clear products.

Polyquaternium-22 is compatible with a wide range of anionic, nonionic and cationic surfactants.

### BENEFITS

- Antistatic: Reduces static electricity by neutralizing the electrical charge on a surface
- Film-forming agent
- Excellent lubrication
- Stable over a wide pH range (pH 2–12)

### APPLICATIONS

Cosmetics

- Hair care: Classic shampoo, conditioner, relaxers, bleaches, dyes, conditioners, styling products, permanent waves, ethnic hair care products
- Skin care: Moisturizer creams, liquid soap, shower foam
- Toiletries
- Sun care

### PACKAGING & SHELF LIFE

**Available packaging**

190kg plastic drum

**Shelf life**

12 months under proper storage conditions