



326 Exchange Drive
Arlington, Texas 76011
817-469-7777

Product Information: SPI-PQ7

INCI Name: Polyquaternium 7

Description:

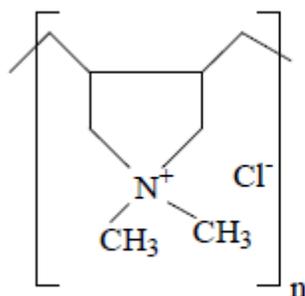
Polyquaternium-7 is the aqueous solutions of the highly charged cationic copolymer of diallyl dimethyl ammonium chloride and Acrylamide with 0.1% methyl paraben & 0.02 propyl paraben as preservatives added.

High solubility in water and compatibility with all types of surfactants makes SPI-PQ7 an excellent ingredient which can be incorporated into hair care and skin care formulations. SPI-PQ7 is an excellent conditioning agent for shampoos providing lubricity and wet combing without causing excessive build-up. It can contribute luster and a soft, silky feel in both leave-on and rinse-off hair care products. In typical shampoo application, SPI-PQ7 may help to provide rich, creamy foam with excellent slip, lubricity and snag-free wet combing. The dry comb ability, such as static & flyaway reducing, is also outstanding.

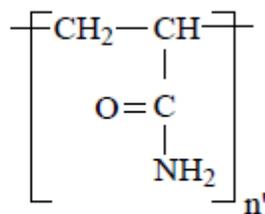
SPI-PQ7 is also an excellent emollient for skin cleansers. When combined in a liquid hand soap formula, it provides a smooth silky feel to the hands.

It's highly recommended to add the cationic SPI-PQ7 polymer into an anionic surfactant or surfactant blend system to acquire a clear liquid cleaning formulation. Add SPI-PQ7 polymer into aqueous phase under agitation near the end of manufacturing process is also proposed.

Chemical Structure:



DADMAC



Acrylamide

Specification	Typical Properties
Color (APHA)	150 Max
Appearance @ 25°C	Colorless Viscous Liquid
pH @ 25°C	6.5 – 7.5
Viscosity @ 25°C	7,500 – 1,500
Active Content	8.0 - 10.0%

Packaging:

This information is believed to be accurate and is intended for general guidance. It should not be construed as a guarantee of its suitability for a particular application. Silicones Plus, Inc. offers no warranties, either expressed or implied, nor is freedom from any patent owned Silicones Plus or others implied; neither is liability accepted for errors or omissions in the information. Typical properties of products are given for guidance only and do not necessarily represent manufacturing specifications.



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200 kg/drums

Solubility:

Soluble in water.

Typical Use Level:

0.5 – 5.0%

Shelf Life & Storage:

1 year from date of manufacture when stored at 15°C or higher in original unopened container. *Important Note:* At low temperatures, SPI-PQ7 may appear cloudy and even form solids due to reduced solubility in water, and it will clear up upon heating. Shake well after heating and before use to ensure uniformity.

Limited Warranty Information:

Although every effort has been made to ensure that the information contained within this data sheet is reliable, we cannot be held responsible for the correctness of the information or for any loss, injury or damage which may result from its use. Suggestions of uses should not be taken as inducements to infringe any particular existing patent.

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