



IntegriQUAT 7 & IntegriQUAT 7 PF

INCI Name: Polyquaternium 7

Product Description:

IntegriQUAT 7 & IntegriQUAT 7 PF is an ingredient developed specifically for cosmetic and personal care products.

Product Characteristics:

IntegriQUAT 7 & IntegriQUAT 7 PF is completely transparent ensuring the required clarity for all cosmetic products. High solubility in water and compatibility with all types of surfactants make IntegriQUAT 7 & IntegriQUAT 7 PF an excellent ingredient which can be incorporated into hair care and skin care formulations.

Compatibility:

IntegriQUAT 7 & IntegriQUAT 7 PF is compatible with all types of surfactants. Its compatibility depends on the chemistry of the anionic material. The maximum quantity of active cationic polymer which can be incorporated into an anionic solution without causing any haziness is calculated by the ratio r:



$$r = \frac{\text{Active Anionic Material}}{\text{Active Cationic Material}}$$

Sodium Laureth Sulfate $r < 12$

Triethanolamine Lauryl Sulfate $r < 8$

Appearance	Clear colorless liquid
Color APHA	≤50
Odor	Very slight
Polymer charge	Cationic
Active Content	8 – 10%
pH (as supplied)	6.5 – 7.5
Viscosity – IntegriQUAT 7	7,500 – 15,000 cps
Viscosity – IntegriQUAT 7 PF	3,500 – 15,000 Brookfield LVT, spindle #4, 12 rpm
Molecular weight	≈ 7 x 10 ⁵
Shelf Life	12 months



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Cosmetic Applications

- Clear and colorless cosmetic products
- Ease of incorporation in formulations due to complete water solubility
- Improved foam stability
- Total compatibility with non-ionic and amphoteric materials

IntegriQUAT 7 & IntegriQUAT 7 PF is a cationic polymer which forms an electrostatic combination with the negatively charged keratin.

In **hair care** products, IntegriQUAT 7 & IntegriQUAT 7 PF can:

- Reduce static and flyaway
- Improve wet and dry combability
- Increase shine, softness and body

In **skin care** products, IntegriQUAT 7 & IntegriQUAT 7 PF:

- Improves the spreadability and the application of the product
- Gives the skin a soft, velvety and non greasy afterfeel.

Concentration Use

IntegriQUAT 7 & IntegriQUAT 7 PF should be used at concentrations from 0.2% to 5% depending on the required effect. It should be added in the aqueous phase under agitation.

Toxicological Data

Eye irritation potential (pure product) - non irritant

Skin irritation potential (pure product) - not irritating

Storage

IntegriQUAT 7 & IntegriQUAT 7 PF should be stored at a temperature between 5 and 35°C. If by accident the product freezes, thaw out by placing the container in warm water while mixing thoroughly.

Packaging

IntegriQUAT 7 & IntegriQUAT 7 PF is available in 204 kg drums

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