

# Hyperion® 1006 | Technical Data Sheet

## Product Information

Hyperion® 1006 is an ecologically optimized agent for the water, oil and soil repellent finishing of fabrics made from cellulosic fibres or their blends. It produces an excellent resistance to washing and dry-cleaning.

## Benefits

- Confers a strong resistance to washing
- Confers a strong repellency towards oil and water
- High resistance to Dry Cleaning
- No need for catalyzers or boosters or high temperatures to cure
- Non-Flammable
- Free of flammable solvents

## Physical and Chemical Characteristics

Technical Data	Specs
Chemical Description	Modified fluorocarbon resin C6
Ionic Character	Cationic
Appearance	Cream liquid
Application	Universal
pH	3 - 6
C6 Content	~8-10%
Total Solids	24-28%

## Product Application

Economic repellence finish: 20 - 40 g/L dry on wet

Standard repellence finish: 40 - 60 g/L dry on wet

**Performance™** repellence finish: 100< g/L dry on wet

Operating temperature range: 160°C - 180°C

(Slight yellowing might occur above 180°C depending on exposure time)

We do not recommend the use of **Hyperion® 1006** with silicone softeners given that its innate repellency to oils, will not allow them to mix. Please check compatibility before use.

## Performance

**Hyperion® 1006** has been tested against the following AATCC standards successfully

### AATCC-22

#### TM22-2017e, Test Method for Water Repellency: Spray test

We recommend a higher curing temperature (180°C) to maximize polymerization of the fluoropolymer, and avoid re-wetting.

### AATCC-42

#### TM42-2017e, Test Method for Water Resistance: Impact

#### Penetration test

We recommend the lower end of the spectrum curing temperature (160°C) to maximize fibre coverage, and prevent filtration to impact.

## Handling

When handling, do not stir with high sheer, as foam will cause surface area to increase, exposing the product to more air, which will dry out and eventually crosslink.

## Packaging

**Hyperion® 1006** can be delivered in 200kg drums, or 1000 kg totes.

For air transport, we recommend drums as exposure to air can cause crystallization of the surface that is in contact with air.

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The above recommendations are based on extensive results done in the most professional manner. The user must try this product industrially first, to verify if the product is viable for further use. The technical information and application advice given in this **Novachem** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. These results however verified and certified by a third party, do not hold us liable in terms of performance deviations. These tests have been conducted in controlled environments. The user is responsible for checking the suitability of products for their intended use.

For further information and to request samples, please visit **novachemgroup.com** where a qualified technician will assist you.