



# Sarex Chemicals

(A Divn. Of Saraf Chemicals Pvt. Ltd.)

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## PRODUCT LITERATURE

### QUEST-HP

#### Product Information

Quest-HP is an organophosphonate (HEDP) based high power sequestering agent specially developed for scouring as well as bleaching of cotton, terry towel and polyester/cellulosic blends. It has a high chelating action for calcium, magnesium and iron under alkaline conditions and high temperature. It not only prevents precipitation of insoluble hydroxides and carbonates formed during scouring and bleaching, but also chelates iron impurities thereby preventing catalytic damage and pin-hole marks during peroxide bleaching. It is also suitable for combine scouring and bleaching operation.

#### Key Features & Benefits

##### Key Features

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High chelation value  
for calcium and iron

Good sequestering  
action over wide pH

##### Benefits

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Suitable for processing with hard  
water and with high iron content

- Suitable for scouring and bleaching  
- Suitable for continuous process  
application

#### General Characteristics

Physical appearance : Colourless liquid  
Ionic nature : Nonionic to weakly anionic  
pH of 1% solution : 2 +/- 1  
Miscibility : Miscible with water  
Compatibilty : Compatible with nonionic and anionic  
products  
Stability : Stable to dilute acids, dilute alkalies  
and hard water

#### Application

1. In scouring, bleaching as well as combined scouring and bleaching of cotton and blends by batch process:

0.5-1 g/l Quest-HP can be added with usual recipe to prevent white deposits as well as pin-hole marks due to iron. When Quest-HP is added in the recipe, reduces the concentration of organic stabiliser as it has stabilising action.



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2. For combined scouring and bleaching on continuous bleaching range

0.5-1 gm/kg Quest-HP is recommended

3. In bioscouring of cotton

0.3-0.5% Quest-HP is recommended to prevent precipitation of pectin residues at the end of bio-scouring and before peroxide bleaching. Quantity of peroxide stabiliser can be reduced when Quest-HP is added before bleaching.

Note:

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Please note that for dosing, 10% dilution of Quest-HP is recommended instead of neat solution.

### Precautions

Storage : Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg C. Close lids firmly to avoid contact with air and moisture.

Shelf Life : 9 months from the date of manufacturing, if stored under controlled conditions.

[The above information is given in good faith and is without warranty]  
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