



## PRODUCT LITERATURE

### KALIUM-NNS

#### Product Information

Kalium-NNS is APEO free detergent with wetting action having unique chemical composition. Kalium-NNS is nonionic and anionic in nature and does not have any cloud point.

Kalium-NNS is stable under wider range of temperature and pH. It is ideally suitable as a scouring agent for natural and synthetic fibres particularly in kier boiling. Kalium-NNS is also stable to hard water.

Kalium-NNS is also suitable for removing unfixed reactive, vat and sulphur dyes at the end of dyeing.

#### Key Features & Benefits

##### Key Features

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Stable to alkaline pH &  
high temperature

Good dispersing action

##### Benefits

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Suitable for kier boiling and weight  
reduction of polyester

Suitable for washing-off of reactive  
dyes, vat dyes, sulphur dyes, azoics

#### General Characteristics

Physical appearance: Colourless liquid

Ionic nature : Weakly anionic to nonionic

pH of 1% solution : 7 +/-1

Miscibility : Miscible in water.

Compatibility : Compatible with anionic to nonionic  
products

Stability : Stable to dilute acids, dilute alkalies and  
hard water as well as high temperature

#### Application

1. Scouring of raw cotton fibre (MLR 1:10):

0.5-1.0% Kalium-NNS

0.5% Soda Ash

0.5-1.0% Caustic Soda Flakes



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Treat at 105 deg.C for 60-90 min.

2. Scouring of cotton Yarn in package form (MLR 1:10):

1-1.5 g/l Kalium-NNS  
0.5 g/l Saraclean-1796  
2-3% Caustic Soda Flakes  
0.75-1% Soda Ash  
at 95-105 deg.C for 45-60 min. or 110 deg. C for 15 min.

3. Combined scouring & bleaching of cotton yarn & fabric which do not contain size (MLR 1:8 - 1:12)

1-2 g/l Kalium-NNS  
0.5-1 g/l Saraclean-1796  
2-3% Caustic soda flakes  
1% Soda Ash  
3-8% Hydrogen Peroxide (50%)  
0.3-1.5% Sarastabil MRS  
0.5-1% Saraquest-2UD (optional)  
at 95-98 deg.C for 45-60 min. or 110 deg.C for 15-20 min.

4. Kier boiling of cotton fabric, cotton yarn (MLR: 1:3 - 1:5)

2-4% Caustic soda flakes  
0.3-0.5% Kalium-NNS  
0.5% Saraclean-1796 (optional)  
Boil under pressure for 2-4 hours

5. Washing off of reactive, Vat, Sulphur and Napthol dyes

Treat with:  
1-2 g/l Kalium-NNS  
0.5-1 g/l Soda Ash  
Soap at pH 8-9, temp. 85-95 deg.C for 30-60 min.  
Repeat the treatment in fresh bath for dark shades.

6. Scouring of Polyester, Nylon, Acrylic fibre and yarn

1-2 g/l Kalium-NNS  
0.5-1 g/l Soda Ash or



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1-2 g/l Trisodium phosphate in case of Acrylic  
Scour at 70-85 deg.C for 20-60 min. to remove spin finish.

7. After treatment of Denim Garments for removal of back  
staining

1.5 g/l Kalium-NNS

1.0 g/l Sarakol-1583

pH 7-8. Treat at 95 deg.C for 15-20 min., drain, hot wash  
and rinse. Unload.

#### 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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