

K – DENT/ K – DENT F Medicated Toothpaste

Composition:

K – DENT medicated toothpaste contains
Potassium Nitrate BP 5% w/v
In a pleasantly flavored base q.s.

K – DENT F medicated toothpaste contains
Potassium Nitrate BP 5% w/w
Sodium Monofluorophosphate USP 0.7% w/w
In a pleasantly flavoured base q.s.

Pharmacology

The potassium ions in **K-DENT** medicated toothpaste are reported to work by blocking the synapse between nerve cells, reducing nerve excitation, and the associated pain. Research has proven efficacy of 5% KNO_3 in **K-DENT** medicated toothpaste, obliterating the tubules. Knight et al. reported results of various mechanical and chemical procedures in obliterating dentinal tubuli by utilizing the scanning electron microscope. The **K-DENT** medicated toothpaste (5% KNO_3) and a professionally applied sealant product (6% ferric oxalate) both produced some obliteration of the tubuli. The findings indicate, if the radius of the tubuli is reduced via obliteration, the fluid flow within the tubuli falls, ultimately reducing dentin hypersensitivity.

Tarbet et al. studied the effect of a 5% KNO_3 in **K-DENT** medicated toothpaste, dentifrice to the tooth surface to determine safety of the product. The dentifrice was used two times daily for four weeks. The teeth, scheduled for extraction, were examined microscopically at the end of product use for any histological discernible alterations. The results demonstrated the 5% KNO_3 dentifrice did not cause any observable tooth surface changes.

The active ingredients in **K – DENT F** medicated toothpaste include Sodium Monofluorophosphate and Potassium Nitrate. It is this specific compound that influences the minerals already present in the saliva to crystallize and cover the pores in the tooth. After a few weeks of using this toothpaste, the teeth should be less sensitive. Aggressive brushing with a hard bristled toothbrush may wear away the coating on the teeth, which will cause the sensitivity to return.

Indications:

K – DENT medicated toothpaste is indicated in *dental hypersensitivity* due to:

- Attrition and Abrasion
- Cervical Abrasion
- Eroded Enamel

K – DENT F medicated toothpaste is indicated in

Increasing the Caries Index

Sensitivity due to Gum Recession

Post – scaling

Preventing new carious lesions

Contraindications

K – DENT and **K – DENT F** are contraindicated if one is hypersensitivity to anyone of the drugs, is known.

Precautions

It is important to avoid swallowing **K- DENT & K – DENT F** or any other brand of medicated toothpaste. It is not sure if Potassium Nitrate can be absorbed through the oral mucosa. If any absorption occurs, it is negligible.

Pregnancy & Lactation

There are no specific studies directed towards safety of **K – DENT** and **K – DENT F** in pregnancy and lactation. However, there is no evidence too about the absorption of the contents of **K- DENT & K – DENT F** being absorbed through oral mucosa.

Drug Interactions

There are no specific drug interactions noted.

Adverse Reactions

No medical problems are noted provided the toothpaste is not ingested.

Dosage & Administration

- Specially formulated for every day use
- Protects against sensitivity
- Fights cavities and plaque
- Fights gum problems
- Strengthens tooth enamel

- Antibacterial protection
- Fluoride protection
- Fresh minty flavor with clove oil

Presentation

K – DENT medicated toothpaste is available in tube of 50 gms.

K – DENT F medicated toothpaste is available in tube of 50 gms.