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DENTAL PRODUCTS



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- ♣ The substances
 - ♣ used to produce effect
 - ♣ on teeth and in dental cavity
 - ♣ is called as dental products.
- E.g. Sodium fluoride.



DENTAL PRODUCTS

The substances used to produce effect on teeth and in dental cavity is called as dental products.

E.g. Sodium fluoride.



Types

1. Anti caries agent :

- sodium fluoride

2. Cleaning agent :

- Dibasic calcium phosphate

3. Polishing agent :

- sodium metaphosphate

4. Desensitization agents :

- Zinc chloride

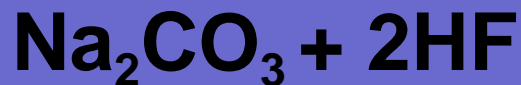


Sodium Fluoride



MOP:

By passing hydrogen fluoride into solution of sodium carbonate.



Physical Properties

1. Colorless powder
2. Odourless
3. Salty taste
4. Soluble in water
5. Insoluble in alcohol.



Uses

- 1. Anticaries agent**
- 2. Prophylaxis of dental caries.**
- 3. Manufacturing of dental products.**
- 4. Used for preparation of insecticides and rodenticides.**



Storage

“ It should be stored in well closed container at a cool place.”



Stannous Fluoride



Syn:

Tin fluoride

MOP :

By mixing stannous oxide with hydrofluoric acid



Physical Properties

1. **Colorless powder**
2. **Odorless**
3. **Salty taste**
4. **Soluble in water**
5. **Insoluble in alcohol**
6. **Insoluble in ether.**



Uses

- 1. Anti caries agent**
- 2. Prophylaxis of dental caries.**
- 3. Manufacturing of dental products.**



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Sodium Meta-phosphate



Syn:

Madrells salt, grahams salt

MOP:

By dehydration of sodium phosphate



Physical Properties

- 1. Colorless powder**
- 2. Odorless**
- 3. Tasteless**
- 4. Insoluble in water**
- 5. Soluble in mineral salts solution**
- 6. Hygroscopic in nature**



Uses

- 1.As dental product
(polishing agent)**
- 2.Manufacturing of dental
products.**
- 3.Used in detergent**



Storage

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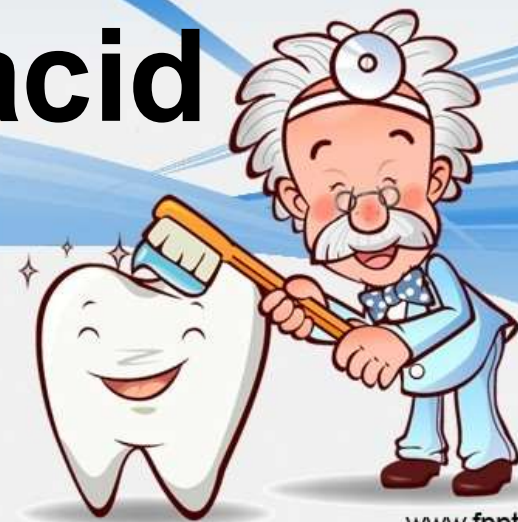


Strontium Chloride



MOP:

**By treating strontium oxide
with hydrochloric acid**



Physical Properties

1. **Colorless powder**
2. **Odorless**
3. **Tasteless**
4. **Soluble in water**
5. **Soluble in alcohol**
6. **Aqueous solution is neutral in nature**



Uses

- 1. As dental product
(Desensitizing agent)**
- 2. Manufacturing of dental
products.**

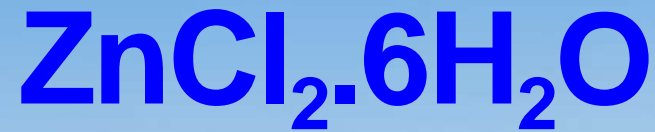


Storage

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Zinc Chloride



Syn:

Butter of zinc



MOP

**By heating metallic zinc
with hydrochloric acid**



Physical Properties

1. **White colored powder**
2. **Odorless**
3. **Tasteless**
4. **Soluble in water**
5. **Soluble in alcohol**
6. **Soluble in glycerin**
7. **Aqueous solution is acidic in nature**



Uses

- 1. As dental product (desensitizing agent)**
- 2. Manufacturing of dental products.**
- 3. As a astringents**
- 4. Mild antiseptics**
- 5. In manufacturing of fire proof wood**



Storage

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