TANIUM DIOXIDE

Chemical formula:- TiO₂

Mol.Wt:-79.90

STD:-It contains not less than 98% of TiO2

w.r.t. substance

Properties:-

- Colour: White
- Odour:-odourless.
- Nature:-Amorphous & fluffy powder
- Taste :- tasteless
- Solubility:-. practically soluble in water, & in dil mineral acid it dissolves slowly in Hot H₂SO₄.

Storage:- Store in well closed container.

Uses:-

- 1. Topical preparation due to its opacity nature.
- 2. due to its opacity nature it is used for screening out the UV radiations in various sun creams & sunscreen product to prevent sunburn.
- 3. Due to its white colour it is used in cosmetic preparation & in paints.

Silicon Polymers

Synonyms:-Dimethicone, Simethicone, Dimethicone, polysiloxne, silicone oils.

Properties & uses of Silicones

- The silicone polymers are generally known as silicone oils.
- The silicone polymers are prepared synthetically by polymerization reaction.
- The oily nature of these compounds makes it useful as water repellent and protective to skin from contact irritants.
- The silicone oils, thus in general act as protective, it also act as an Antiflatulents and used in varying amount in antacid preparations.

• Dimethicone:

- It is an inert silicone, oily in nature, it is stable and has low surface tension.
- It forms a protective layer on skin like plastic and acts as water protective agent.
- It is mainly used in ointments, sprays, lotions and creams. Simethicone:
- It occurs as a light gray, translucent liquid with greasy consistency. It is prepared from dimethylpolysiloxane.
- It is used as an Antiflatulents and is employed in antacid, antispasmodic, sedative and digestant preparations in 40 80 mg dose at bed time.