

Brand Name: DCOFEN GEL

Composition: Diclofenac Diethylamine, Methyl Salicylate , Menthol & Linseed Oil gel

Dosage Form: OIL GEL

Category: Topical Analgesic and Anti-inflammatory Gel

Packaging Type: LEMITUBE

Packaging: 30 gm.

Brief Product Information:

DCOFEN is a fast-acting topical oil-based gel manufactured by **AstraEureka Pharmaceutical**, a trusted **manufacturer of composition** combining **Diclofenac Diethylamine, Linseed Oil, Methyl Salicylate, and Menthol**. This multi-ingredient formulation provides effective relief from muscular pain, joint stiffness, swelling, and inflammation. The synergistic action of NSAIDs, counterirritants, and anti-inflammatory agents makes DCOFEN suitable for both acute and chronic musculoskeletal conditions.

Composition:

- Linseed Oil BP.....3.00% w/w
- Diclofenac Diethylamine.....1.16% w/w
(equivalent to Diclofenac Sodium 1.00% w/w)
- Methyl Salicylate IP.....10.00% w/w
- Menthol IP.....5.00% w/w
- Gel Base.....q.s.

Key Ingredients:

1. **Diclofenac Diethylamine (1.16% w/w)** – A non-steroidal anti-inflammatory drug (NSAID) that reduces pain and inflammation.
2. **Linseed Oil BP (3.00% w/w)** – An anti-inflammatory agent that enhances skin penetration and supports local action of NSAIDs.
3. **Methyl Salicylate IP (10.00% w/w)** – A topical analgesic and counterirritant that helps reduce deep muscular and joint pain.
4. **Menthol IP (5.00% w/w)** – Provides a cooling effect and helps soothe pain while enhancing blood circulation.
5. **Gel Base Q.S.** – Ensures quick absorption and non-greasy application.

Key Benefits:

1. Provides fast and long-lasting relief from muscle and joint pain.
2. Reduces inflammation, swelling, and stiffness in affected areas.
3. Offers a dual sensation of cooling and warming for better comfort.

4. Enhances local circulation, promoting faster recovery.
5. Non-greasy, non-staining formulation suitable for everyday use.
6. Helps manage both acute injuries and chronic conditions like arthritis.

Indications:

1. Back pain, neck pain, and shoulder pain
2. Muscular sprains and strains
3. Sports injuries
4. Joint pain due to osteoarthritis and rheumatoid arthritis
5. Sciatica and nerve-related pain
6. Tendonitis and bursitis

Directions for Use:

1. Clean and dry the affected area before application.
2. Apply a small quantity of DCOFEN oil gel to the painful area.
3. Massage gently until fully absorbed.
4. Do not cover with a bandage unless directed by a physician.
5. Use 2 to 3 times daily or as recommended by your healthcare provider.

Doses and Administration:

1. Apply thinly to the affected area 2 to 3 times a day.
2. Use the minimum quantity required to cover the site.
3. Avoid applying on broken or irritated skin.
4. External use only.

Safety Information:

1. Do not apply near eyes, nose, or mucous membranes.
2. Wash hands thoroughly after application.
3. Avoid using heating pads or covering the area tightly after application.
4. Discontinue if rash, irritation, or discomfort develops.
5. Not recommended for use in children below 12 years without medical advice.
6. Use cautiously during pregnancy and breastfeeding after medical consultation.

Mechanism of Action:

- **Diclofenac Diethylamine** inhibits the enzyme **cyclooxygenase (COX-1 and COX-2)**, reducing the synthesis of **prostaglandins**, which are responsible for inflammation and pain. It acts locally to reduce swelling and discomfort.

- **Linseed Oil** is rich in omega-3 fatty acids and exhibits anti-inflammatory properties. It also improves the percutaneous absorption of diclofenac, enhancing its efficacy.
- **Methyl Salicylate** acts as a **counterirritant**, stimulating sensory receptors and creating a sensation that distracts from deeper musculoskeletal pain.
- **Menthol** stimulates cold receptors in the skin, providing a cooling sensation followed by increased local blood flow, which assists in pain relief and muscle relaxation.

Contraindications:

1. Known hypersensitivity to Diclofenac, Salicylates, Menthol, or any excipient.
2. Open wounds, eczema, or skin infections at the site of application.
3. Patients with known aspirin or NSAID-induced asthma or allergic reactions.
4. Use in pregnant women during the third trimester is not recommended.
5. Not to be used on mucosal surfaces or in the eyes.

Side Effects:

1. Local skin irritation or redness
2. Allergic reactions such as rash or swelling
3. Burning or stinging sensation on sensitive skin
4. Photosensitivity reactions (rare)
5. Systemic absorption-related NSAID effects (extremely rare with topical use)

Important Notice:

- For external use only.
- Do not ingest or apply to large body areas.
- Not for long-term continuous use without medical supervision.
- If pain or inflammation persists for more than 10 days, seek medical advice.
- Avoid application on broken or damaged skin.

Storage Condition:

1. Store below 25°C in a dry and cool place.
2. Protect from sunlight and moisture.
3. Do not refrigerate or freeze.
4. Keep the tube tightly closed after each use.

Packing Information:

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- Packaging: 30 gm.