

60[★]
years
IN OILS AND FATS



Consistent Quality Empowering Growth

Reinforced by 6 decades of trust

PHARMA
DIVISION



3F INDUSTRIES LTD.®

A shining legacy of **60 years**

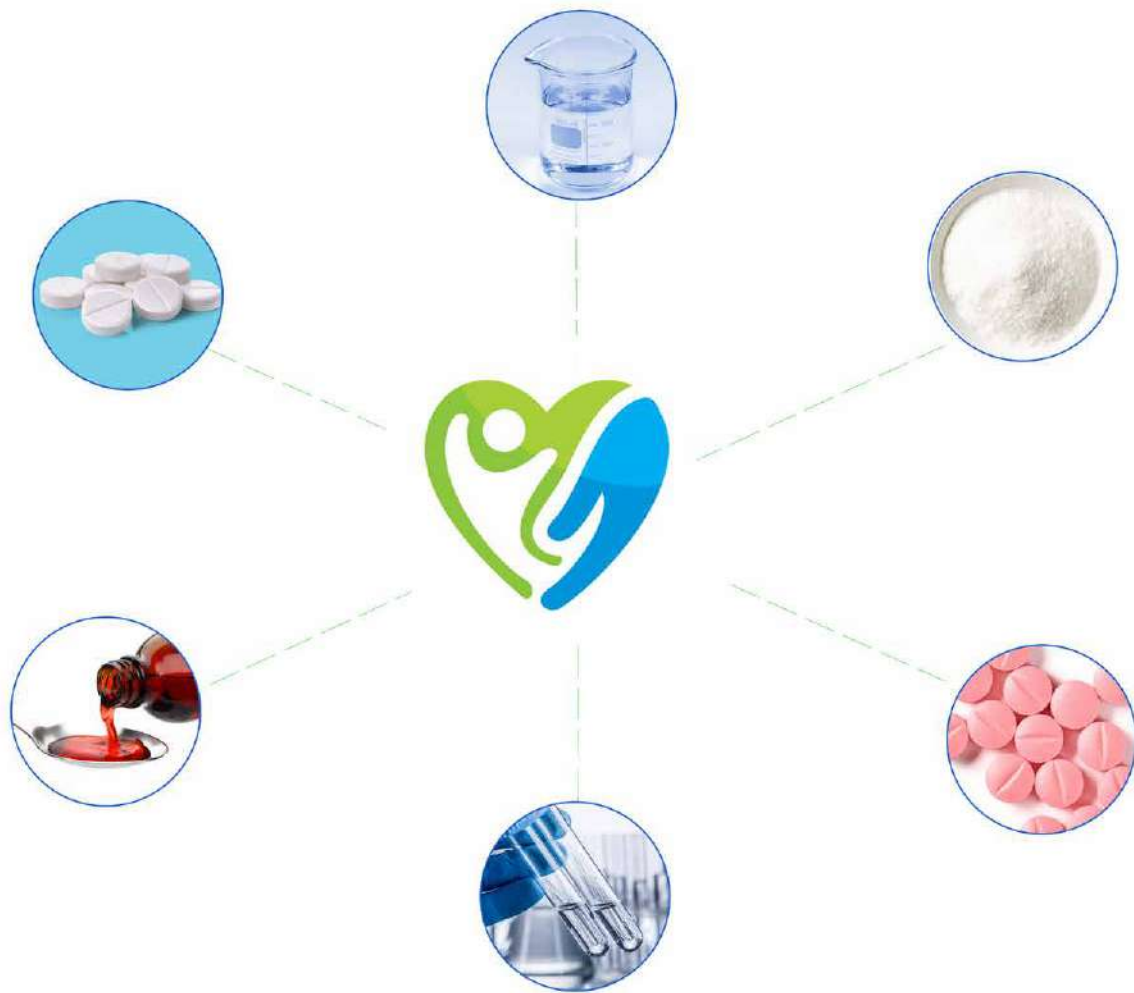
Over the years, 3F Industries Limited has become a conglomerate with business pursuits in diverse industries. With a humble beginning in 1960, 3F Industries Limited has grown into an Indian MNC enjoying over 60 years of commendable reputation as a **multi-product manufacturing** and commodity trading company across the globe.



Our portfolio includes - Oleo Chemicals, Pharma Excipients, Bakery Shortening & Margarine, Confectionary & Specialty Fats, Fractionated Palm Fat, De-Oiled Cakes, Industrial Chocolates, Refined Vegetable Oils & Shea Butter Skincare. 3F Group has a strong presence in multiple sectors like Oil Palm Cultivation, Commodity Trading and Bio-Mass based Power Plant. We have 3 production units in Andhra Pradesh, India and 1 production unit at Ghana under 3F Africa. It is a wholly-owned subsidiary of 3F Industries Ltd, is a major processor of shea nuts and its downstream products.

Beyond business, we commit significant resources to philanthropic initiatives in education, health and community service through 3F Swabhimaan Foundation.





Commitment to excellence and consistent quality

Our ultramodern manufacturing technology and production facilities are at par with the industry's golden standards and are globally recognised to cater to customised requirements of diverse industries such as Pharmaceuticals, Personal Care, Animal Nutrition, Plastic & PVC, Paint & Coating, Rubber Tyres & Profiles etc. across the globe.

3F Industries Ltd is a leading manufacturer of 100% Vegetable Oil-based Oleo Chemicals in India for a wide range of Fatty Acids, Soap Noodles, Refined Glycerin and Hydrogenated Fats which find application in diverse industries such as Plastic & PVC Additives, Rubber Tyres & other Rubber Profiles, Cosmetics, Alkyd Resins, Textile Additives, Pharmaceuticals, Toilet Soaps to name a few.

3F Industries Ltd boasts a global clientele spread across Europe, USA, Japan and other countries.



Partner for Quality & Innovation

Spearheading innovation and quality in Oleochemical manufacturing, our Oleo Chemical Division leverages on the group's capabilities of sourcing raw materials in-house through its agricultural and manufacturing activities of cultivation, milling and refining of vegetable oils. We are one of the leading manufacturers of Stearic Acid and Refined Glycerin in India.

Our commitment to innovation has been instrumental in providing customised solutions that adhere to and align with industry standards and requirements.

Fortresses for Innovation

3F Pharma Division boasts of **state-of-the-art manufacturing unit** with leading technologies for continuous innovation and progressive research with **best-in-class facilities to facilitate product customisation as per formulation requirements.**

Our Product Range:

| | |
|--------------------|------------------|
| Magnesium Stearate | Calcium Stearate |
| Stearic Acid | Refined Glycerin |

Key Highlights:

- The state-of-the-art WHO GMP-Standard Facility for production of Pharma Grade products.
- Production of different grades for Pharma, Food and Cosmetic applications.
- Products comply with all major pharmacopeia: IP, USP, Ph. Eur, BP.
- In-house manufacturing of Stearic Acid, the key raw material for complete control over the final quality of Magnesium and Calcium Stearates.
- Automated Production unit with precise pneumatic control right from Raw Material Charging section till Packing section ensuring excellent control on various properties such as Specific Surface Area, Particle Size and Fatty Acid Composition of the product without traceable contamination.
- Best-in-class technology to facilitate product customisation as per formulation requirements.
- Superior quality of Refined Glycerin with 99.8% min. glycerol content and superior control over heavy metals and other contaminants.
- In-Line high-efficacy magnetic treatment process, ensures Metal Particle-Free products.
- A dedicated Air Handling Unit provided to each critical area with ISO 8 classified system in processing areas.
- Fully automated CIP (Cleaning-In-Place) system with a 2-stage cleaning process is provided in the processing area to provide a high degree of cleaning and to avoid cross-contamination.
- Purified Water produced by RO with EDI system is used for cleaning of process equipment.
- Seamless Anti-Static PU flooring in all Clean Room Processing areas and PU flooring in all other processing areas and storage areas.
- All the grades are produced in accordance with strict GMP conditions.
- TSE / BSE & Residual Solvent Free products.
- Consistent compliance to specification for every batch is a hallmark of 3F Pharma products.

Q.C. & Q.A. Facilities

- The Q.C. department is well equipped with WHO GMP-Compliant Chemical & Instrumental laboratory.
- The laboratory has 21 CFR compliant instruments.
- Separate Stability Storing Facility and Control Sample Storage area as per the latest ICH guidelines.
- World class QMS (Quality Management System) in place. The dynamic QA team assures strict compliance with the regulatory requirements.
- Effective QMS for CAPA, OOS & OOT management.

Certificates & Compliances

- IP, USP, BP & EP
- ISO 9001-2015
- EXCiPACT
- cGMP
- USDMF
- RSPO
- HALAL
- KOSHER
- FSSAI



3F LuboMag

Magnesium Stearate

3F LuboMag is one of the most desirable lubricating agents used in solid dosage formulations. It is safe and non-toxic in nature.

Product Specifications:

| Sr. No. | Test | IP | BP | Ph.Eur. | USP |
|---------|---|----|----|---------|-----|
| 1 | APPEARANCE | + | + | + | + |
| 2 | SOLUBILITY | - | + | + | - |
| 3 | IDENTIFICATION | | | | |
| | • Freezing point | + | + | + | - |
| | • Acid value | + | + | + | - |
| | • Assay of Magnesium (on dried basis) | + | + | + | + |
| | • Precipitation test (for Magnesium Stearate) | - | + | + | - |
| | • Identification A (for Magnesium Stearate) | - | - | - | + |
| | • Identification B (retention time test) | + | + | + | + |
| 4 | APPEARANCE OF SOLUTION OF THE FATTY ACIDS | + | - | - | - |
| 5 | APPEARANCE OF SOLUTION | + | - | - | - |
| 6 | ALKALINITY OR ACIDITY | + | + | + | + |
| 7 | FREE STEARIC ACID | + | - | - | - |
| 8 | HEAVY METALS | | | | |
| | • Lead | - | + | + | + |
| | • Cadmium | - | + | + | + |
| | • Nickel | - | + | + | + |
| 9 | IMPURITIES | | | | |
| | • Sulfates | + | + | + | + |
| | • Chlorides | + | + | + | + |
| 10 | ZINC STEARATE | + | - | - | - |
| 11 | FATTY ACID COMPOSITION | | | | |
| | • Stearic acid content | + | + | + | + |
| | • Palmitic Acid + Stearic acid | + | + | + | + |
| 12 | LOD AT 105° C | + | + | + | + |
| 13 | MICROBIAL TEST | - | + | + | + |

Applications:

- Pharmaceutical industry, Food, Nutraceutical & Cosmetic formulations as lubricant, anti-adherent, anti-caking agent, binder, emulsifier, etc.

Packaging:

- 25 kgs net weight packed in Paper Bags/ HDPE Drums with LDPE inner liners.

3F LuboCal Calcium Stearate

3F LuboCal, Calcium Stearate is a safe and non-toxic lubricating agent and water repellent, being the product of choice in many solid dosage formulations.

Product Specifications:

| Sr. No. | Test | IP | BP | Ph.Eur. | USP |
|---------|---|----|----|---------|-----|
| 1. | APPEARANCE | + | + | + | + |
| 2. | SOLUBILITY | - | + | + | - |
| 3. | IDENTIFICATION | | | | |
| | • Freezing point | - | + | + | - |
| | • Acid value | - | + | + | - |
| | • Assay of Calcium (on dried basis) | + | + | + | + |
| | • Identification A (for Calcium Stearate) | + | + | + | + |
| | • Identification B (retention time test) | - | + | + | - |
| 4. | ALKALINITY OR ACIDITY | - | + | + | - |
| 5. | HEAVY METALS | | | | |
| | • Lead | - | + | + | - |
| | • Cadmium | - | + | + | - |
| | • Nickel | - | + | + | - |
| 6. | IMPURITIES | | | | |
| | • Sulfates | - | + | + | - |
| | • Chlorides | - | + | + | - |
| 7. | FATTY ACID COMPOSITION | | | | |
| | • Stearic Acid content | + | + | + | + |
| | • Palmitic Acid + Stearic acid | + | + | + | + |
| 8. | LOD AT 105° C | + | + | + | + |
| 9. | MICROBIAL TEST | - | + | + | - |

Applications:

- Pharmaceutical industry, Food, Nutraceutical & Cosmetic formulations as lubricant, mould release agent, anti-tack agent, anti-caking agent, emulsifier, etc.

Packaging:

- 25 kgs net weight packed in Paper Bags/ HDPE Drums with LDPE inner liners.

3F LuboStear

Stearic Acid

3F LuboStear, Stearic Acid is a safe and non-toxic lubricant and controlled release agent used in solid dosage and skin care formulations.

Product Specifications:

| Sr. No. | Test | IP | BP | Ph.Eur. | USP |
|---------|--|----|----|---------|-----|
| 1 | APPEARANCE | + | + | + | + |
| 2 | SOLUBILITY | + | + | + | + |
| 3 | IDENTIFICATION | | | | |
| | • Identification A (Freezing point) | + | + | + | + |
| | • Identification B (acid value) | + | + | + | + |
| | • Identification C (retention time test) | + | + | + | + |
| 4 | COLOUR OF SOLUTION | - | + | + | + |
| 5 | IODINE VALUE | + | + | + | + |
| 6 | SAPONIFICATION VALUE | + | + | + | + |
| 7 | RESIDUE ON IGNITION | - | - | - | + |
| 8 | ACIDITY | - | + | + | + |
| 9 | HEAVY METALS | + | - | - | + |
| 10 | FATTY ACID COMPOSITION | | | | |
| 11 | STEARIC ACID CONTENT | + | + | + | + |
| 12 | PALMITIC ACID + STEARIC ACID | + | + | + | + |
| 13 | SULFATE ASH | + | - | - | - |
| 14 | MINERAL ACID | + | - | - | - |
| 15 | NICKEL | - | + | + | - |

Applications:

- Pharmaceutical industry, Food, Nutraceutical & Cosmetic formulations as lubricant, anti-adherent, anti-caking agent, binder, emulsifier, etc.

Packaging:

- 25 kgs net weight packed in Paper Bags/ HDPE Drums with LDPE inner liners.

Refined Glycerin - Pharma Grade

Refined Glycerin is odourless and colourless. Its multi-functional properties and non-toxic nature make it a versatile product which is extensively used in pharmaceutical products, personal care and cosmetics.

Our quality grade meets both domestic and international regulatory requirements including that of the Pharmacopeia and Food Safety and Standards Authority of India.

Product Specifications:

| Sr. No. | Test | IP | BP | Ph.Eur. | USP |
|---------|---|----|----|---------|-----|
| 1 | APPEARANCE | + | + | + | - |
| 2 | SOLUBILITY | + | + | + | - |
| 3 | IDENTIFICATION | | | | |
| | • Identification - A (Refractive Index) | + | + | + | - |
| | • Identification - B (Infrared absorption spectrophotometry) | - | + | + | + |
| | • Identification - C (Relative Density) | - | + | + | - |
| | • Limit of Diethylene Glycol and Ethylene Glycol | - | - | - | + |
| | • Identification - D (retention time test) | - | - | - | + |
| | • Identification - E (Test with Nitric Acid and Potassium Dichromate) | + | - | - | - |
| | • Identification - F (Test with Potassium Hydrogen Sulfate) | + | - | - | - |
| 4 | APPEARANCE OF SOLUTION | + | + | + | - |
| 5 | ALKALINITY OR ACIDITY | + | + | + | - |
| 6 | ALDEHYDES | + | + | + | - |
| 7 | ESTERS | + | + | + | - |
| 8 | IMPURITIES AND RELATED SUBSTANCES | + | + | + | - |
| 9 | HALOGENATED COMPOUNDS | - | + | + | - |
| 10 | SUGARS | + | + | + | - |
| 11 | INORGANIC IMPURITIES | | | | |
| | • Chlorides | + | + | + | + |
| | • Sulfates | + | - | - | + |
| | • Residue on ignition | - | - | - | + |
| 12 | ORGANIC IMPURITIES | | | | |
| | • Related Compounds | - | - | - | + |
| | • Limit of Chlorinated compounds | - | - | - | + |
| | • Fatty Acids and Esters | - | - | - | + |
| 13 | WATER DETERMINATION | + | + | + | + |
| 14 | SULFATED ASH | + | + | + | - |
| 15 | ASSAY | + | + | + | + |
| 16 | SPECIFIC GRAVITY | - | - | - | + |
| 17 | COLOUR | - | - | - | + |
| 18 | HEAVY METALS | + | - | - | - |
| | • Iron | + | - | - | - |

Applications:

- Refined Glycerin is used in pharmaceutical industries as lubricant, thickener, demulcent, humectant, and sweetener. It is commonly used in expectorants, suppositories and gel capsules.

Packaging:

- Bulk in Tanker Load / Flexi Tank & 250 kgs net weight in new HDPE Drums.



Manufacturing best-in-class products since 1962.



3F INDUSTRIES LTD.[®]

(Formerly Foods, Fats and Fertilisers Ltd.)

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