

50[★]
years
IN OILS AND FATS

Consistent Quality Empowering Growth

Reinforced by 5 decades of trust



PHARMA
DIVISION



3F INDUSTRIES LTD.

A shining legacy of **50+ 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 50 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 & Speciality 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 Limited is a leading manufacturer of 100% Vegetable Oil-based Oleo Chemicals in India and also boasts manufacturing of a wide range of Fatty Acids, Soap Noodles, Refined Glycerine 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 manufacturer of Stearic Acid and Refined Glycerine.

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

Our Pharma Product Range:

Magnesium Stearate	Stearic Acid
Refined Glycerine	Calcium Stearate

Magnesium Stearate

3F LuboMag, Magnesium Stearate - IP/BP/USP/Ph.Eur Grade.

Magnesium stearate is one of the most desirable lubricating agents used by pharmaceutical companies as an excipient as it is safe and non-toxic.

3F Advantages:

- In-house manufacturing of Stearic Acid, the key raw material for complete control over the final quality of Magnesium Stearate.
- The automated production unit ensures excellent control on various product properties such as Specific Surface Area, Particle Size, and Fatty Acid Composition that correlates with lubricant efficacy. **Best-in-class technology to facilitate product customisation as per formulation requirements.**
- In-Line high-efficacy magnetic treatment process, ensures Metal Particle-Free Magnesium Stearate.
- 3F Magnesium Stearate products comply with all major pharmacopeia: IP, USP, Ph. Eur, BP.
- All the grades are produced in accordance with strict GMP conditions.
- TSE / BSE Free product.
- Consistent compliance to specification for every batch is a hallmark of 3F Magnesium Stearate.





Applications:

- Pharmaceutical industry, Food, Nutraceutical & Cosmetic formulations as Lubricant, Anti-Adherent, Anti caking agent, Binder, Emulsifier etc.

Packaging:

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

Product Specifications:

3F LuboMag

Magnesium Stearate



Sr. No.	Test	IP	BP	Ph.Eur.	USP
1	Appearance	+	+	+	+
2	Solubility	-	+	+	-
3	Identification	+			
	• Freezing point	+	+	+	-
	• Acid value	+	+	+	-
	• Fatty acid Composition	+	-	-	-
	• Assay of Magnesium (on dried basis)	+	+	+	+
	• Precipitation test	-	+	+	-
	• Identification A	-	-	-	+
	• Identification B	-	-	-	+
4	Appearance of solution of the fatty acids	+	-	-	-
5	Alkalinity or Acidity	+	+	+	+
6	Free Stearic Acid	+	-	-	-
7	Heavy metals	+			
	• Lead	NA	+	+	+
	• Cadmium	NA	+	+	+
	• Nickel	NA	+	+	+
8	Impurities				
	• Sulfates	+	+	+	+
	• Chlorides	+	+	+	+
9	Zinc Stearate	+	+	-	-
10	Fatty Acid Composition				
	• Stearic acid content	+	+	+	+
	• Palmitic Acid + Stearic acid	+	+	+	+
11	LOD at 105 deg C	+	+	+	+
12	Microbial Test	-	+	+	+

Other best-in-class products available

- 3F LuboCal Calcium Stearate IP/BP/USP/ Ph.Eur
- 3F LuboStear Stearic Acid IP/BP/USP/Ph.Eur.

Refined Glycerine - Pharma Grade

Refined Glycerine 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.

3F Advantages:

- Produced from in-house crude glycerine from vegetable oil & fat-based feedstock.
- All the grades are produced in accordance with strict GMP conditions.
- Automated drum filling mechanism.
- TSE / BSE Free product.

Product Specifications

Product	CAS No.	Glycerol (%)	Refractive Index (at 20 °C)	Specific Gravity	Heavy Metal (ppm)	Chloride (ppm as Cl)	Sulfate (ppm as SO ₄)	Water (% w/w)
Glycerine - IP Grade	56-81-5	99.50 Min.	1.470 – 1.475		5 Max.	25 Max.	10 Max	0.2 Max
Glycerine - USP Grade	56-81-5	99.50 Min.	-----	1.249 Min at 25 °C	5 Max.	10 Max.	10 Max	0.2 Max
Glycerine - EP Grade	56-81-5	99.50 Min.	1.470 – 1.475		5 Max.	10 Max.	-----	0.2 Max
Glycerine - BP Grade	56-81-5	99.50 Min.	1.470 – 1.475		5 Max.	10 Max.	-----	0.2 Max

Application:

Refined Glycerine 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 Barrel.



Fortresses for Innovation

3F Pharma Division boasts of state-of-the-art manufacturing unit with leading technologies for continuous innovation and progressive research.

Key Highlights:

- The state-of-the-art WHO GMP-Standard Facility for production of Pharma Grade Magnesium Stearate, Calcium Stearate, Stearic Acid and Refined Glycerine.
- Production of different grades for Pharma, Food and Cosmetic applications.
- Reverse integration with the in-house Key Raw Materials like Stearic Acid and Crude Glycerine to provide complete control over final product quality.
- Automated production system with precise pneumatic control right from Raw Material Charging Section till Packing Section to ensure product quality well within the specifications and without traceable contamination.
- Physical attributes of Magnesium Stearate like Specific Surface Area, Particle Size Distribution, Bulk Density and Tap Density are closely monitored and controlled to ensure the best-in-class lubrication property.
- Fully automated CIP (Cleaning-In-Place) system with 2-stage cleaning process is provided in the processing area to provide a high degree of cleaning and to avoid cross contamination.
- A dedicated Air Handling Unit provided to each critical area with ISO 8 classified system in processing areas.
- 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.



Q.C. & Q.A. Facilities

- The Q.C. department is well equipped with WHO GMP-Compliant Chemical, Instrumental & Microbiological Laboratory.
- The laboratory has 21 CFR compliant instruments.
- Separate Stability Testing 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
- USDMF
- FSSAI
- HALAL
- KOSHER

Certificates in Pipeline

- WHO-GMP
- ExciPact





Manufacturing best-in-class products since 1962.



3F INDUSTRIES LTD.

(Formerly Foods, Fats and Fertilisers)

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