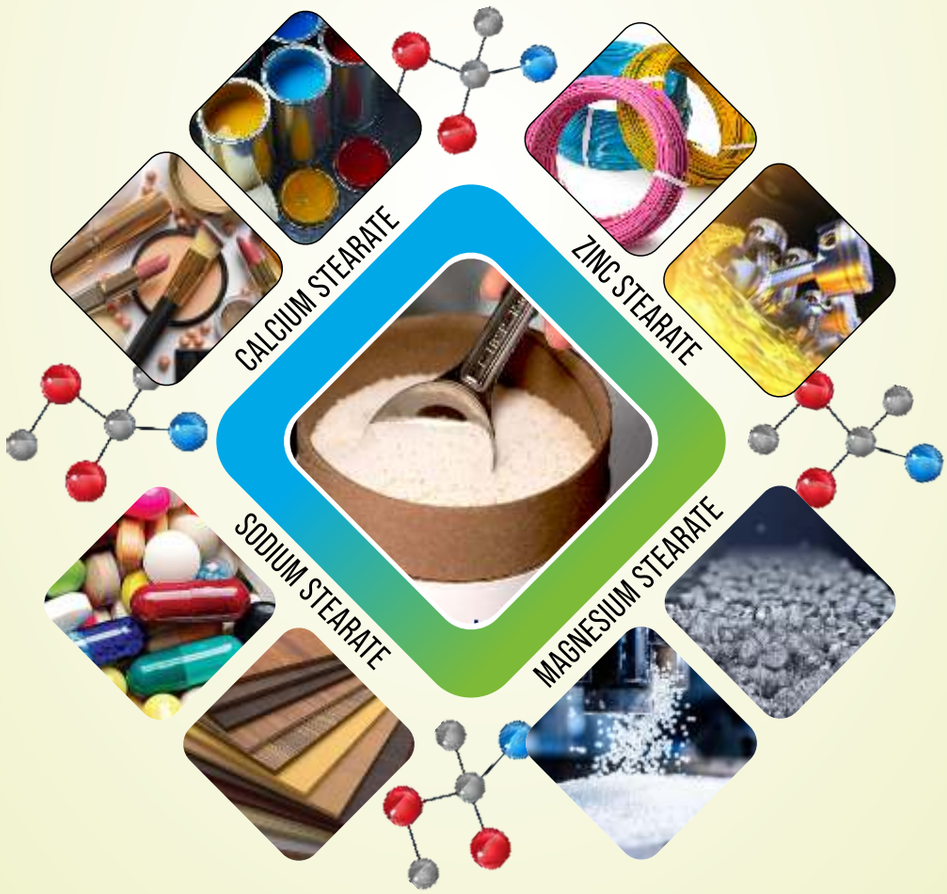
EXPLORE AND EXPAND

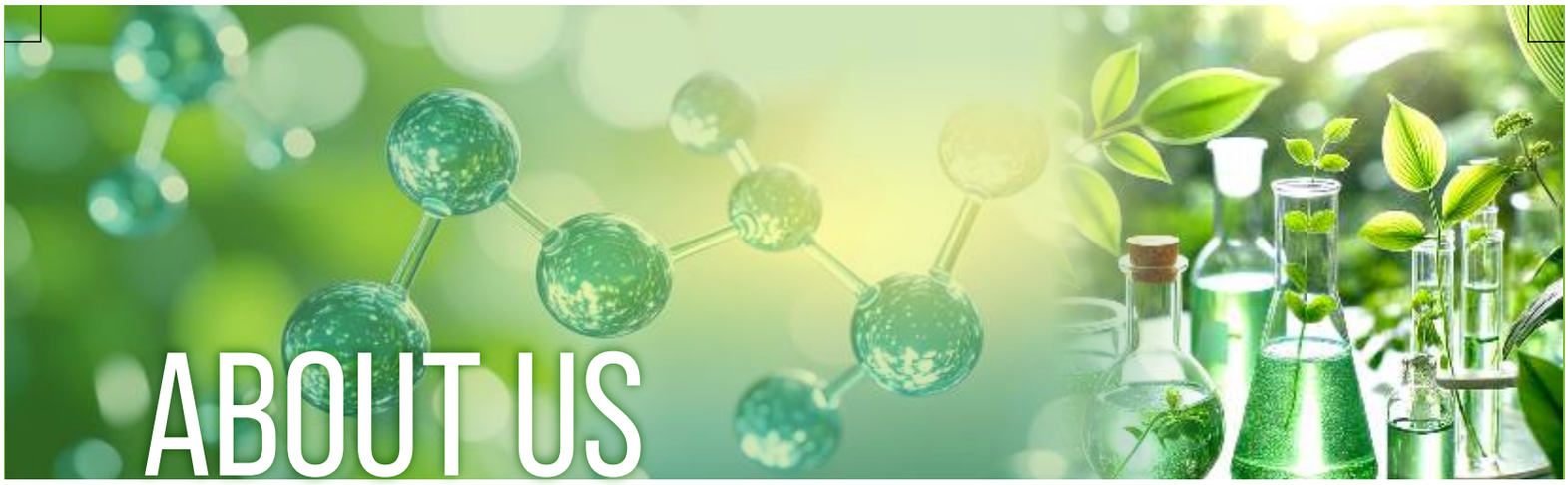
SYNERGY
POLYMER ADDITIVES

SYNO SOAPS

Metallic Soaps

Performance Backed by Renewable Sources





ABOUT US

Synergy Polyadditives is a globally recognized, privately owned company specializing in the innovation, development & manufacturing of high-performance processing additives for the polymer industry. Since our inception in 1986, we have continually evolved-driven by a powerful blend of customized R&D and a deep understanding of both current and emerging needs of polymer processors.

Synergy Polyadditives specially designed complete range of metallic soaps - Calcium, Zinc, Magnesium, Sodium and Aluminum Stearates perfectly match ASTM standards.

They find a multitude of applications in polymer processing & other diverse fields. Those products are marketed under the brand “SYNOSOAPS”.

Our approach is rooted in collaboration. We work intimately with our clients to deliver precise & customized solutions while remaining sincerely committed to sustainable, eco-conscious production practices. Every product we create reflects our dedication to quality, cost-effectiveness and environmental responsibility.

PRODUCTS & SERVICES
METALLIC SOAPS

SYNO SOAPS

Synergy Polyadditives specially designed a complete range of metallic soaps manufactured through State-of-the -art proprietary Fusion, Precipitation and S F saponification techniques employing best quality raw materials.

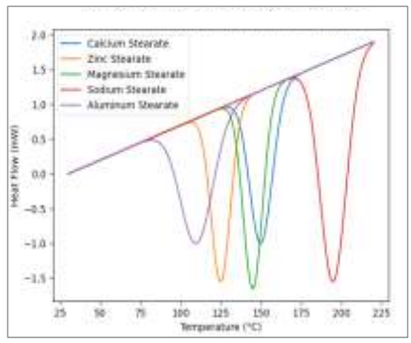
Our product range of **SYNOSOAPS** encompass stearates of Calcium, Zinc, Magnesium, Sodium and Aluminum.

SYNOSOAPS- SN 187,SN-440, SN-441, SN-182, SN-240, SN-241, SN-630, SN-640, SN-740, SN-840

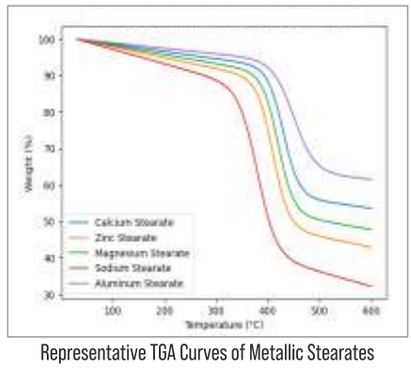
SALIENT FEATURES:

- Acts as an acid scavenger in PVC systems
- Hydrophobic, improves moisture resistance
- Works synergistically with other stabilizers and additives
- Enhances dispersion of fillers and pigments
- Improve melt flow and processability
- Reduce sticking and improves mold release

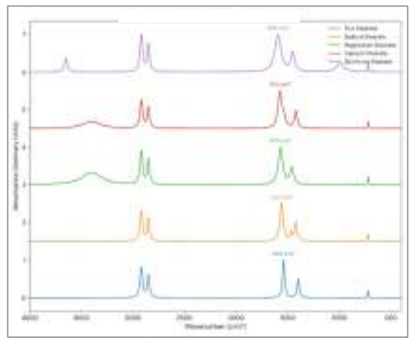
METALLIC SOAPS-SF TECHNOLOGY



Representative DSC Curves of Metallic Stearates



Representative TGA Curves of Metallic Stearates



Comparative FTIR Spectra of Metallic Stearates

APPLICATION

- Plastics
- Masterbatches
- Paints & coatings
- Petrochemical industry
- Pharmaceutical and cosmetic
- Textiles and leather
- Construction and paper industry

METALLIC STEARATES

Bio-Based | Sustainable | Low Carbon

01 CALCIUM STEARATE | 02 ZINC STEARATE | 03 MAGNESIUM STEARATE | 04 SODIUM STEARATE | 05 ALUMINIUM STEARATE

CALCIUM STEARATE

SYNO SOAPS

Calcium Stearate, a versatile calcium soap of stearic acid is manufactured in various convectional and non dusting physical forms to facilitate optimization of gravimetric feeders during polymer compounding and also to address the dusting issues.

Calcium Stearate functions as lubricant, release agent, acid-scavenger, vinyl co-stabilizer, processing aid, hydrophobic agent and polymer rheology modifier. It finds a multitude of applications in plastics, rubbers, paints & coatings, pharmaceuticals, animal feeds and construction industry.

PRODUCT GRADE	PHYSICAL FORM	TYPE	METAL CONTENT	APPLICATION
SN-187	Powder	Calcium Stearate	7.3±0.5% as Ca	High Heat Stable For Polyolefins (PE, PP, EVA)
SN-187 G	Granules	Modified CS	7.3±0.5% as Ca	RoHS Certified High Heat Stable For Polyolefin, PP, PS, ABS
SN-187 NDP	Non-Dusting Powder	Modified CS	7.3±0.5% as Ca	RoHS Certified High Heat Stable For Polyolefin , PP & EVA
SN-440	Granules / Non-Dusting Powder	Calcium Stearate	7.3±0.5% as Ca	Co-Stabilizer with other metallic stearate eg., Barium & Zinc
SN-441	Powder	Calcium Stearate	8±0.5% as Ca	For better dispersion

ZINC STEARATE

SYNO SOAPS

Zinc stearate is a multifunctional matal soap derived from high grade fatty acids and zinc sources. Zinc stearate is prepared in different conventional and non-dusting forms to facilitate material handling, optimization of gravimetric feed rates during polymer compounding and addressing the dusting issues.

Zinc stearate functions as a Lubricant, Release agent, Primary heat stabilizer for Vinyl polymers, Hydrophobic and Anti-caking agent, Kicker for Blowing agents. It finds a huge usage in processing of Thermo and Thermoset plastics, Paints & Coatings, Blowing agents, Pharma and Construction industry.

PRODUCT GRADE	PRODUCT FORM	TYPE	METAL CONTENT	APPLICATION
SN-182 G	Granules	Zinc Stearate	10.3±0.5% as Zn	High Heat Stable for Polyolefins (SMC/DMC Compounds)
SN-182 P	Powder	Zinc Stearate	10.3±0.5% as Zn	ROHS Certified for Polyolefins and EVA
SN-182 NDP	Non-Dusting Powder	Zinc Stearate	10.3±0.5% as Zn	Stabilizer-Lubricant for PVC/ABS, Polyolefins and Engineering plastics
SN-240	Powder	Zinc Stearate	10.3±0.5% as Zn	Stabilizer-Lubricant for PVC
SN-241	Powder	Zinc Stearate	9±0.5% as Zn	For PVC stabilization & masterbatch

METALLIC STEARATES

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MAGNESIUM STEARATE

SYNO SOAPS

Synergy Polyadditives have emerged as a prominent manufacturer, supplier and exporter of magnesium stearate.

Magnesium Stearate, a widely used magnesium soap of stearic acid, serves multiple functions e.g, Lubricant, Release agent, Processing aid for plastics and rubbers, secondary heat stabiliser for PVC, Flow modifier, Hydrophobic agent, Acid-scavenger, Anti-caking agent and Binder.

It finds an extensive use in Plastics & Rubbers, Pharmaceuticals, Cement paints, Food and Cosmetic industry.

PRODUCT GRADE	PRODUCT FORM	TYPE	METAL CONTENT	APPLICATION
SN-630	Non-Dusting Powder	Magnesium Stearate	4.2±0.4% as mg	As a Stabilizer • Polyolefins (PE, PP) • Engineering Plastics (Nylon, PET, PBT) • PVC & Vinyl Systems
SN-640	Granules	Magnesium Stearate	4±0.5% as mg	As a Lubricant • Thermoplastics (PP, PE, Nylon, ABS) • Rubber Compounds • SMC/BMC and DMC • Lubricant and co-stabilizer in Rigid & flexible PVC • Mold Released & Processing lubricant in PE &PP. • Flow improver in ABS, PS, SAN and Nylon

SODIUM STEARATE

SYNO SOAPS

Sodium Stearate, a versatile sodium soap of stearic acid finds extensive use across many industries due to its Stabilising, Surfactant, Emulsifying, Thickening, Dispersing and Rheology modifying properties.

Major industries served by Sodium stearate, include Plastics & Rubbers, Paints, Coatings & inks and Construction.

PRODUCT GRADE	PRODUCT FORM	TYPE	METAL CONTENT	APPLICATION
SN-740	Non-Dusting Powder	Sodium Stearate	7±0.5% as Na	High temperature Lubricant, Nucleation agent and Stabilisation in PA, PBT, PET and thermosets- PF, UF and MF.

ALUMINIUM STEARATE

SYNO SOAPS

Aluminum Stearate is a multifunctional metallic soap of stearic acid valued for its Gelling, Thickening, Water repellency and Rheology modifying properties.

Aluminum Stearate, Find an extensive usage in Pharmaceuticals, Cosmetics, Paints, Coatings & inks, Greases & oils, Construction industry.

PRODUCT GRADE	PRODUCT FORM	TYPE	METAL CONTENT	APPLICATION
SN-840	Non-Dusting Powder	Aluminium Stearate	3.1-5.3% as Al	Gelling thickening water repellant and Rheology modifier in Pharma, Cosmetics, Coatings, Greases and construction materials.

EXPLORING OUR
GLOBAL REACH TO EXPAND

ECO-FRIENDLY

REDUCE CO_2 EMISSION

USE RENEWABLE RESOURCES

Sustainable Additives

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