

Introduction to Sun Ace Group



SUN ACE Group



- A Japanese origin **Polymer Additives & Speciality Chemical** manufacturer established in 1940
- Operating in 12 countries with 22 operations
- ISO9001, 14001, 45001 and FSSC 22000 certified company
- Global employees with 25 different nationalities



SUN ACE Product Portfolio



- **PVC Stabilisers (50%)**
for PVC articles (Pipe, Fitting, Profile, Cable, Sheet, Film, Packaging)
- **Metal Soaps (38%)**
for Polyolefin, Polystyrene, FRP, Rubber, Paint, Cosmetic, Food, Medical, Pharmaceutical, Pigment, Cement, Coated Sand
- **Speciality Additives (12%)**
Lubricant/ Dispersant for various Plastics
Non-vinyl Additives, Rubber Additives, Chemicals for Semiconductor



SUN ACE Group Operations



Singapore

Australia Dandenong

Australia Brooklyn

Malaysia

Saudi Arabia

Brazil



South Africa

Germany Loxstedt

Germany Lohne

China

Japan

Colombia

Plants : Japan, Singapore, Malaysia, Australia (2), Saudi Arabia, South Africa, Germany, China, Brazil, Colombia

Offices : Tokyo, China (2), India

SUN ACE PVC Stabilisers



PVC Stabiliser

SUN ACE PVC Stabilisers



PVC Heat Stabiliser (Solid)

One Pack

- Calcium Zinc based
- Lead based



SUN ACE PVC Stabilisers



PVC Heat Stabiliser (Solid)

- Powder
- Granular
- Flake
- Non-Dusting Compacts

SUN ACE PVC Stabilisers



PVC Heat Stabiliser (Liquid)

Tin based

- Methyl Mercaptide
- Reverse Ester Methyl Mercaptide

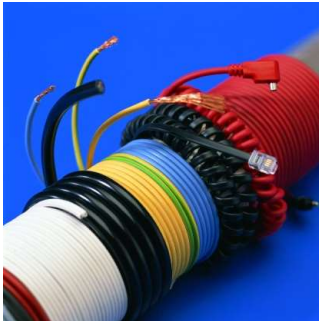
Mixed Metal based

- Barium Zinc
- Calcium Zinc

SUN ACE PVC Stabilisers



Pipes (Pressure & Non-pressure)
Pipe Fittings
Foam Pipes
Corrugated Pipes
Indoor/Window Profiles



Corrugated Sheets
Wire & Cables
Toys
Film and Sheets
Others

SUN ACE Metal Soaps



Metal Soaps

SUN ACE Metal Soaps



- SAK stearates are produced by direct fusion method.
- Metal oxides or hydroxides are reacted with stearic acid.
- A very high degree of purity stearates are obtained with this process.
- A wide selection of metallic stearates - calcium, zinc, magnesium, sodium, potassium, lithium stearates.

SUN ACE Metal Soaps



Stearates

Solid

- Calcium Stearate
- 12 Hydroxyl Calcium Stearate
- Zinc Stearate
- 12 Hydroxyl Zinc Stearate
- Magnesium Stearate
- 12 Hydroxyl Magnesium Stearate
- Sodium Stearate
- Potassium Stearate
- Lithium Stearate
- 12 Hydroxyl Lithium Stearate

Liquid

- Zinc Stearate

SUN ACE Metal Soaps



- Plastic Additives for PVC,PE,PP,PS, ABS, Phenolic
- Food, Cosmetics and Pharmaceutical Additives
- Paints, Coatings & Wood Lacquer Additives
- Paper Coating Additives
- Pigment Additives
- Anti-Tack Rubber Additives
- Water Proofing Additives for Cement



SUN ACE Metal Soaps



- Cost effective and consistent quality products.
- Reliable supply with multi regional production sites.
- Wide range of products to service various applications.
- Special Certification :
Kosher, Halal, NSF, ISO9001, 14001, 22000 and
FSSC 22000, JHOSPA, RSPO (SG/MB)

SUN ACE Vision



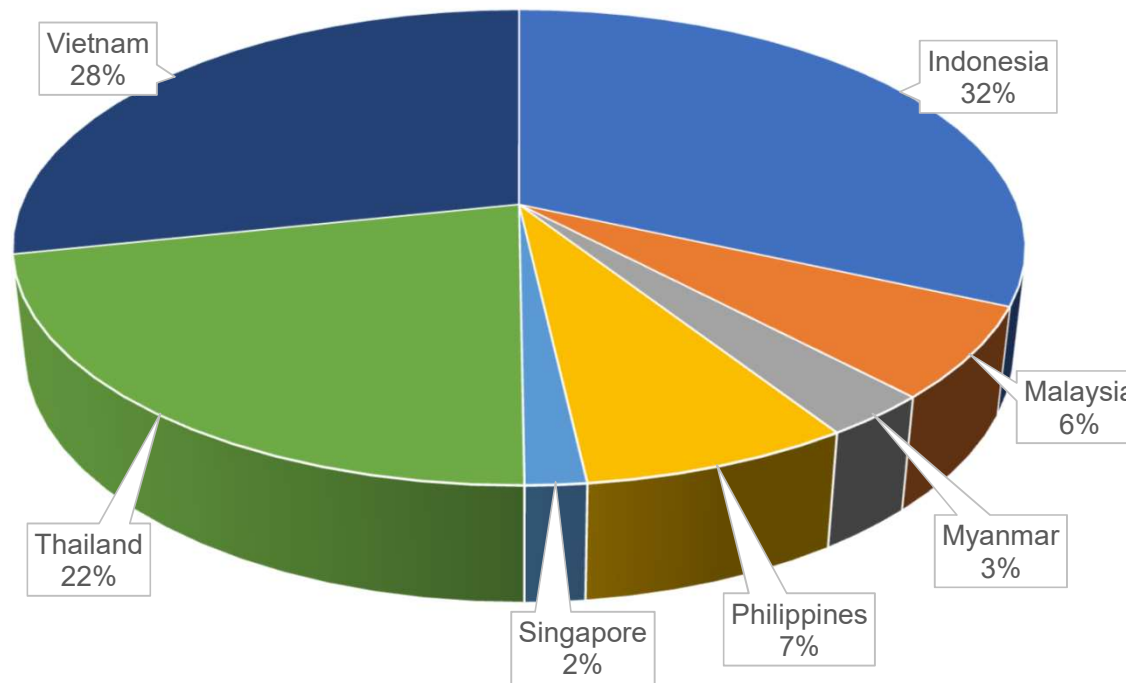
*We believe in dynamic growth through our
Multi-Cultural Teamwork & Partnership.
We aim to be a world leading supplier of
speciality additives & services by focusing on
multi-regional market needs.*



SUN ACE PVC Consumption



PVC Consumption in SEA
(estimate 2.6mil MT)



SUN ACE CaZn vs Lead



Lead Replacement in SEA for Cables

