

HIGH TECHNOLOGY MANUFACTURER OF PERFORMANCE
ADDITIVES FOR PVC INDUSTRIES



Aryavart Chemicals Pvt. Ltd.



"THE RISING SUN"

"ADDING VALUE THROUGH PERFORMANCE"

PVC ADDITIVES

Aryavart Chemicals has perfected through continuous investment in R&D, a design and production system where external as well as internal lubricants are finely balanced in order to achieve optimum results for the processor. Our One Pack systems give the processor tremendous flexibility to adjust the formulation in relation to filler loading and their own specific operating parameters. Aryavart Chemicals manufactures a full range of products which are Lead based one pack stabilizer systems which are of the Lubricated and Non Lubricated type. A short tabulation of the PVC Stabilizer range has been given below. Each of the categories mentioned below has also been explained in detail in the following sections

Product Category	PVC STABILIZERS
Product Type	Lead Stearate Complexes, Mixed metal complexes, Non Toxic Stabilizers such as CaZn Stabilizers
Applications	PVC Pipes, Conduits, Fittings, Cables, Artificial Leather Cloth, Doors & Window Profiles.

LEAD BASED & MIXED METAL COMPLEX STABILIZERS

RIGID PVC PIPES & CONDUITS

Our products can be used in a wide variety of Pipes such as Pressure and Non Pressure Pipes, electrical conduits, sewage and telecom ducts etc. Products grades such as **INSTABEX® C-2, C-81, C-9** are non lubricated powders. Grades such as **INSTABEX® P-9001, P-9522** are lubricated powders, however the same will require some additional lubrication support during processing. Grades such as **INSTABEX® C-333, C-909, F-9016 and F-9333** are fully lubricated flakes which can be used in a wide variety of processing conditions based on each customers individual requirements.

CABLE COMPOUNDS

The **INSTABEX®** range of Individual stabilizers such as **TBLS, DBLS, LS, CS, DBLPhos and DBLThal** are carefully manufactured under strict process parameters and pulverized using the latest pneumatic separation technology to ensure very narrow particle distribution range. This in turn ensures better dispersion and better results. These products are then used in combinations by the Cable producers who can then formulate based on the requirements of the end cable compound. We have introduced one-pack stabilizer system for cable compounds such as **INSTABEX® C-11, C-12 and C-18(B)** which are used for both insulation and sheathing purposes. These products have a particle size of 400 mesh, high Lead content and high performance specialty additives which result in better performance even at low concentrations. These products impart good tensile & elongation strength and give better electrical properties to the cables produced.

DOOR & WINDOW PROFILES

Aryavart Chemicals has designed a range of products specifically for the production of profiles like windows and doorframes. These products are designed for filled profiles and contain the latest generation of lubricants to impart smooth finish and to generate better output. These products are also designed to have excellent weathering properties. **INSTABEX® C-2(D), F-9504 and C-666(WP)** are our products in this range.

PVC FITTINGS

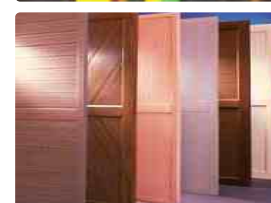
Aryavart introduced the concept of liquid Lead Stabilizers in India for the first time in 1985 and offered **INSTABEX® IC** for application in PVC fittings. Liquid Leads offer the advantage of low specific gravity (approx. 1.3), dust free handling, easy dispersion and its presence at thermally degradable active state in the molecular chain prevents the degradation more effectively. **INSTABEX® IC** is a fine blend of Lead and Plasticizers in a balanced manner to obtain high quality fittings with good control on the weight of each shot. Also keeping in mind, the needs of customers and their requirement for a product in the powder form, which can be dosed into their existing systems Aryavart Chemicals introduced **INSTABEX® MP-9** for them

SHOE COMPOUNDS

INSTABEX® C-325 is a proprietary Barium based one-pack most suitable for shoe compounds, suction hoses, gasket sheets etc. **INSTABEX® C-325** not only imparts better heat stability but also, if properly formulated along with chelator, gives clarity & shine to the compound.

PVC SHEET COMPOUNDS

INSTABEX® C-82 is complex DBLPhos based stabilizer which yields a higher thermal stability than TBLS and a better light stability than light DBLPhos. New technology in the manufacture of **INSTABEX® C-82** makes it a more superior stabilizer than the physical mixture of TBLS & DBLPhos



PVC ADDITIVES

CALENDERED AND COATED PRODUCTS

Aryavart Chemicals have developed a full range of Barium-Cadmium formulations suitable for various applications and is marketed under **INSTABEX® M series**. This series is most suitable for processing PVC at critically high temperatures requiring good clarity which eliminates the use of additional chelating agents, while also promoting a high fusion rate. They find applications in different areas such as clear or opaque Calendered Products, Garden hoses and crystal clear suction hoses.

Aryavart has also developed a full range of Barium-Cadmium-Zinc complex stabilizer systems under the **INSTABEX® Z series**. This series of stabilizers impart effective heat stability along with better weather ability as well as good gloss and initial color. Presence of Zinc in the system imparts resistance to calendar-roll plate-out. These products find application in areas such as the Top coat of coated and calendered sheets.

The **INSTABEX® KB series** is based on Cadmium-Zinc and is employed as a stabilizer cum kicker used along with blowing agents like azo-di-carbonamide. Production of satisfactory chemically blown foam depends on the correct selection of polymer, plasticizer, filler and blowing agent. These kickers reduce decomposition temperature of the blowing agent, provide adequate thermal stability and control the evolution of gas. Incorporation of epoxy in the formulation will improve heat stability, aging properties and also assist in better formation.

NON TOXIC STABILIZERS

INTRODUCTION

Most European countries have banned use of Lead & Cadmium in PVC processing and hence all heavy metal based stabilizers have been phased out and have been gradually replaced with a series of heavy metal free stabilizers as an effective alternative. Aryavart Chemicals over the last 7 years has devoted a lot of time, money and effort in developing its own line of Non Toxic Stabilizers based on Mixed metals such as Barium, Calcium, Zinc and Potassium in synergistic effect with other Co Stabilizers and Lubricants for a wide variety of applications. Development efforts in this area are still ongoing and more and more new products for different applications are being introduced every quarter.

ARTIFICIAL LEATHER CLOTH

The **INSTABEX® BZ series** are stabilizers based on Barium-Zinc complexes and are the most suitable for topcoats of ALC to be exported to European countries. Perfect balance of Barium & Zinc assures better heat stability but also better weather ability. Barium-Zinc complex ensures sulfide stain resistance. Incorporation of Epoxy oil imparts synergistic action.

The **INSTABEX® KC series** kickers are an alternative kicker system based on Potassium-Zinc. These systems are free from heavy metals and hence fulfill requirements of export to European countries. These products not only reduce the decomposition temperatures of the blowing agent but also provide adequate thermal stability also.

PVC CABLES

Aryavart has designed its Calcium-Zinc **INSTABEX® CZ-900** series of PVC Stabilizers for use in PVC Cables. While designing these products, extreme care has been taken to choose all the ingredients to be free from heavy metals to meet ROHS compliance. All batches are certified for heavy metal analysis.

INSTABEX® CZ-981 is high power stabilizer in powder form, specifically designed for cable compound for higher grade domestic cables. It imparts good initial colour, better heat stability and electrical properties and is suitable for operating temperatures up to 70°C.

INSTABEX® CZ-990 is high power stabilizer in powder form, specifically designed for cable compound for higher grade domestic cables. It imparts good initial color, better heat stability and electrical properties and is suitable for operating temperatures up to 90°C.

INSTABEX® CZ-999 is high power stabilizer in powder form, specifically designed for PVC Cables. It imparts good initial color, better heat stability and electrical properties and is suitable for operating temperatures up to 120°C.

RIGID PIPES & CONDUITS

Aryavart Chemicals has designed its range of Calcium-Zinc **INSTABEX® CZ-9000** series for use in processing of Rigid Pipes and Conduits. An excellent blend of Stabilizers, Co-Stabilizers and modified new generation lubricants has been so designed to offer best of the synergies to meet the requirements of the processor.

INSTABEX® CZ-9001 is high power stabilizer in powder form, specifically designed for PVC pipes and electrical conduits.

PVC PROFILES

Aryavart has introduced its range of Calcium-Zinc **INSTABEX® CZ-3000** series for use in the extrusion of PVC Profiles. **INSTABEX® CZ-3001** is high power stabilizer in powder form, specifically designed for PVC profiles. This product has been designed keeping in mind the stringent processing requirements of the processors, the long processing times and their unique product requirements.



Customer Delight Through Innovation

"We Have Progressed Because Of Our Attention To Customer Care, Continued Product Excellence, competitive Prices And Technological Innovations".

"We Are Grateful To All Our Existing Customers Who Have Supported Us Over The Years And We Take This Opportunity To Welcome You Into Our Esteemed Customer Circle".

Aryavart Chemicals Pvt. Ltd., was established in 1974 at Mumbai by a team of technocrats with a zeal to make the company as the single source of performance chemicals for the Paint & Polymer Industry. Fittingly they designed the emblem as the **Rising Sun** which is the source for all energy. The name Aryavart signifies the land of the Aryans who were defined as people who operate with complete **Unity of Thought Word and Deed**. We hence intended to be and have built up a reputation as a company which always delivers on its promises.

Key Features

1. We have set up State of the Art manufacturing facilities at **Jalgaon, near Mumbai** which can manufacture up to 18000MT of all products. These are high tech facilities controlled by PLC's with strict adherence to quality standards
2. In 1997, Aryavart became the **first company in its field** in India to obtain ISO 9002 and we are now certified as ISO 9001:2008.
3. We have diversified customer base worldwide in more than **20 countries** and have been recognized as **Star Export House** by **Government of India**.
4. We have reiterated our commitment to "**Customer Care**" by
 - a. Committing ourselves to **continuous improvement** in every aspect of our business
 - b. A state of the art **Quality Assurance lab** which pre tests and certifies products to eliminate lab tests at our customers end
 - c. A **broad spectrum of products** to suit diverse customer needs
 - d. Competent **after sales technical Service**
5. We have an **in house R&D lab**, which has always been a major strength of Aryavart Chemicals. This lab has a number of credits to its name
 - a. **International Benchmarking** of our products with the best available.
 - b. Launched INSTABEX® IC, a **Lead Stabilizer in liquid form** for the first time in India.
 - c. The first company in India to make One Pack Stabilizer systems **commercially and technically viable** for customers
 - d. In 2011 we have invested in a separate facility to manufacture a range of **Non Toxic Stabilizers** based on Calcium, Barium and Zinc for all applications of PVC.



Aryavart Chemicals Pvt. Ltd.

Plot No N-97, N-96, M.I.D.C Industrial Area,
Jalgaon Pin: 425003, Maharashtra. INDIA

- Telephone: +919324401700, +91-9920698991.
- E-mail: rajan.panikker@aryavart.net
- Website: www.aryavart.net