



ARYAVART

Aryadry | Instabex | Instalet | Instalux

ARYAVART CHEMICALS PVT. LTD.

www.aryavart.net

Our Story

Establish

4 decades of continuous journey from 1974 has made Aryavart Chemicals Private Limited (ACPL) a single source of performance chemical for paint and polymer industry

Evolve

With a philosophy of "Change is the only constant" & "make it better", ACPL has ventured in to PVC Stabilizers and rubber additives; ACPL sets up new facility in Jalgaon, Maharashtra with mighty area of **20.000** sq. meter.

Expand

1978 was a key year for ACPL as a changing base to expand and Empower it- self to a bigger facility due to growing customer needs owing to its superior quality and services. ACPL shifted base to Taloja

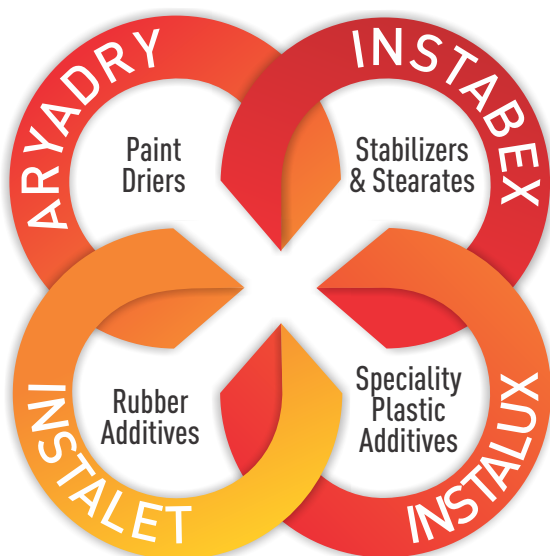
Experience

42 years of experience has made ACPL products well established name in polymer & paint industry.

Empower

In April 2019, the new IBC norms has empowered ACPL by getting resolved to **Osian India - Group**. Osian group is **Genxt** entrepreneurs group with interest in Oleochemicals, metals, various plastic & rubber chemicals, beauty & personal care products . Osian India has built up a reputation as an innovative and multidimensional group which always delivers on its promises through quality, service and competitiveness.

What we do? We produce conflicts



Our Capabilities



Aryavart's Product Lines

INSTABEX SERIES OF PVC STABILIZERS

PIPES

INSTABEX C-2/C-3 These ranges of products are essentially one pack stabilizers where external as well as internal lubricants are to be added separately. This gives maneuverability to the operator to adjust the formulation in relation to filler loading.



These are one pack stabilizer system in the powder form which are perfectly balanced and produced as co-precipitate in controlled conditions and the resultant products imparts the best possible synergy. This results in to optimum utilization of stabilizers resulting in to lower dosage. It is highly recommended for twin screw extruders but can also be used on single screw extruders.

INSTABEX C-333/C-909/F9120/F9106/F9130/F9140 These are one pack stabilizer system in flake form to reduce dusting and improves handling at the manufacturer end. They are perfectly balanced products - produced in controlled conditions to impart the best possible synergies. They are most suitable for high output machines where filler loading is moderate. They are balanced with the latest generation co-stabilizers and lubricants.

CABLE COMPOUNDS

INSTABEX C-11/C-12 **INSTABEX C-11** is an ideal one-pack stabilizer system for insulating cable compounds. Very fine particle size of 400 mesh, high lead content and addition of specialty additives which results in better performance even at lower concentrations. **INSTABEX C-12** is the most suitable one-pack system for sheathing compound where higher filler dosages are desired. This product imparts good tensile & elongation strength and at the same time, works out to be most economical. It gives better electrical properties than the equivalent products available in the market.



DOOR / WINDOW PROFILES

INSTABEX C2 D /P511 These grades are very economical high performance systems, specially tailor made and recommended for the production of profiles like window & doorframes. It has excellent weathering properties.



PVC FITTINGS

INSTABEX MP-9 The lead stabilizer in powder form, we offer **INSTABEX MP-9**. This is a fine blend of lead and lubricants in a balanced manner to obtain high quality fittings with good control on the weight of each shot.

SHOE COMPOUNDS / HOSES

INSTABEX C-325/C-2325 These are proprietary Barium based one-pack systems most suitable for shoe compounds, suction hoses, gasket sheets etc. They not only impart better heat stability but also, if properly formulated along with co stabilizers such as phosphates, gives clarity & shine to the compound.

PVC SHEET COMPOUNDS

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



GLANCE AT OUR GRADES

PRODUCT- GRADE	APPEARANCE	METAL %	METAL OXIDE %	SPECIFIC GRAVITY	MOISTURE CONTENT %	PARTICLE SIZE	MELTING / SOFTENING POINT °C
Instabex C-2	Fine off white powder	48 +/- 2	51 +/- 2	2.0 to 2.30	1.00 Max.	99 to 99.99% Through	Not Applicable
Instabex F-9101 / F- 9120	Off white creamy flakes	18 +/-2	19 +/- 2	1.50 to 1.80	1.00 Max.	Not Applicable	90 – 105
Instabex F-9333 / F- 9126	Off white creamy flakes	24 +/-2	26 +/-2	1.50 to 1.80	1.00 Max.	Not Applicable	90 – 105
Instabex C 333 E / F-9130L	Off white Creamy flakes	24 +/-2	26 +/- 2	1.50 to 1.80	1.00 Max.	Not Applicable	90 – 105
Instabex F-9108 / F- 9140	Off white creamy flakes	33 +/-2	35 +/- 2	1.30 to 1.60	1.00 Max.	Not Applicable	90 – 105
Instabex C -333 / F- 9140E	Off white creamy flakes	28 +/-2	30 +/-2	1.50 to 1.70	1.00 Max.	Not Applicable	90 – 105



INSTABEX SERIES OF NON TOXIC CaZn STABILIZERS

CABLE COMPOUNDS

For the Cable Industry we have introduced 4 powerful grades in powder form which impart good initial color, better heat stability and excellent electrical properties

INSTABEX® CZ-981 is suitable for operating temperatures up to 70°C

INSTABEX® CZ-990 is suitable for operating temperatures up to 90°C

INSTABEX® CZ-999 is suitable for operating temperatures up to 110°C

All the products have high stability with CR @ 200°C giving results between 2 to 5 hours

These are ROHS compliant products and are certified heavy metal free

PVC PIPES AND FITTINGS

For the PVC rigid extrusion Industry we have introduced 2 powerful grades in a powder form.

INSTABEX® CZ-9021 is a high power stabilizer specifically designed for PVC non pressure pipes and electrical conduits.

INSTABEX® CZ-9022 is a high power stabilizer specifically designed for PVC pressure pipes. These products have an excellent blend of Stabilizers, CoStabilizers and modified new generation lubricants which are designed to offer the best synergies to meet the requirements of the processor.

PVC PROFILES & FLEXIBLE SHEETS

For the PVC rigid extrusion Industry we have introduced 2 powerful grades in a powder form.

INSTABEX® CZ-3001 is a 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.

FITTINGS

INSTABEX® CZ-711 is a stabilizer specifically designed for PVC flexible extrusion.

These products have an excellent blend of stabilizers, costabilizers and modified new generation lubricants which are designed to offer the best synergies to meet the requirements of the processor

CaZn STABILIZERS- GRADE	TOTAL METAL OXIDE	APPEARANCE	SPECIFIC GRAVITY	MOISTURE %
CZ9022	9.00 - 14.00	Free flowing white powder	1.0-1.30	2.00 Max.
CZ981	71.00 - 76.00	Fine off white powder	1.50-1.70	2.00 Max.
CZ3001	12.00 - 14.00	Fine Off white powder	1.00-1.30	3.00 max.

INSTABEX SERIES OF LIQUID STABILIZERS/METAL CARBOXYLATES

ARTIFICIAL LEATHER CLOTH

For the Calendaring, Spread Coating etc. we have introduced the following grades:-
INSTABEX® BZ-412 is a Barium Zinc stabilizer with dynamic stability up to 40 minutes.
INSTABEX® BZ-414 is a Barium Zinc stabilizer for stability up to 60 minutes.
INSTABEX® KC-1 is a Potassium Zinc Kicker for foamed applications.
These products are typically used for top coat of ALC.

BARIUM CADMIUM STABILIZERS

Aryavart have developed a full range of Barium-Cadmium formulations suitable for various applications and is marketed under **INSTABEX M** series. This series is a specialty Barium-Cadmium system most suitable for processing PVC at critically high temp. requiring good clarity. The use of additional quantity of chelating agents is not required when this series of stabilizers are being used in proper proportions, thus providing substantial cost savings. **INSTABEX MA & INSTABEX M-18** promote a high fusion rate that is the most essential requirement for certain compounds. Incorporation of epoxy and stearic acid is recommended to give synergistic effects.

BARIUM CADMIUM ZINC STABILIZERS

The full range of Barium-Cadmium-Zinc complex stabilizer systems under **INSTABEX Z** series. This series of stabilizers impart effective heat stability along with better weather ability. Presence of Zinc in the system imparts resistance to calendar-roll plate-out. These products offer good gloss and initial color. Incorporation of epoxy and stearic acid is recommended to give synergistic effects.



INSTABEX SERIES OF NON TOXIC LIQUID STABILIZERS/METAL CARBOXYLATES

POTASSIUM ZINC KICKERS

The **INSTABEX KA & KB** series is employed as stabilizer cum kicker 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 temp. of the blowing agent, provide adequate thermal stability and control evolution of gas. Incorporation of epoxy in the formulation will improve heat stability, aging properties and also assist in better formation.

HEAVY METAL FREE STABILIZERS

BZ2/BZ4/BZ414

The **INSTABEX BZ** series is based on Barium-Zinc complex and is 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.

CADMIUM FREE KICKERS

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 temp. of blowing agent but provide adequate thermal stability also. **INSTABEX KC-1** is a slow kicker compared to **INSTABEX KC** and hence recommended where compact cell structure is desired.



INSTABEX SERIES OF METAL STEARATES

Aryavart Chemicals is one the pioneers & largest manufacturer exporter of calcium stearate, zinc stearate, barium stearate, lithium & cadmium stearate.

CALCIUM STEARATE

Calcium Stearate widely used for plastics, paint, petrochemical and rubber industries. It is used as lubricant and acid acceptor in all polymers and petrochemical industries.

ZINC STEARATE

Zinc Stearate (Special Grade) for high heat stability for plastics, paint, petrochemical, rubber industries, and also polyoleofin industries. It is used as dispersing agent and also used for matting/grinding.

PRODUC- GRADE	APPERANCE	METAL %	METAL OXIDE %	SPECIFIC GRAVITY	MOISTURE CONTENT %	PARTICLE SIZE %	MELTING / SOFTENING POINT ° C	FREE FATTY ACID %
Instabex Calcium Stearate	Fine white powder	6.60 - 8.00	9.24 - 11.20	0.90 - 1.10	3.00 Max.	99 to 99.99% Through 200 Mesh	140 - 160	1.00 Max.
Instabex Zinc Stearate	Fine white powder	10.44 - 11.49	13.00 - 14.31	0.90 - 1.10	1.00 Max.	99 to 99.99% Through	118 - 125	2.00% Max.
Instabex Barium Stearate	Fine white powder	20 +/- - 2	Not Applic able	1.20 - 1.40	1.00 Max.	99 to 99.99% Through 200 Mesh	Not Applicable	1.00% Max.

Apart from this ACPL can offer above stearates is tailor-made specification & 12 Hydroxy stearates of lithium and cadmium.



ARYADRY SERIES OF PAINT DRIERS

Aryavart Chemicals Pvt. Ltd. offers a complete range of Paint Driers developed specially for use as Driers in Paints and Varnishes. These are metallic salts of synthetic carboxylic acid, and are characterised by controlled metal concentration, compatability with the paint media and are subject to rigid quality control tests. Salts of naphthenic acid used as driers have excellent solubility and stability and they are offered as solutions in mineral turpentine at definite metal concentrations. Octoates/ Iso Octoates are metallic salt solutions of synthetic carboxylic acid which have a definite composition and are of the lightest colour. They compare in drying performance to naphthenates but have a lighter colour, lower viscosity and less odour and have a precise composition.



To manufacture these products we have set up a hi-tech plant to manufacture 12000 MT per annum of Paint Driers at Jalgaon. International trade magazines have taken note of this plant.

COBALT

Cobalt is the most active drier or top drier because it activates drying of the film by oxidation. For good thorough drying, cobalt is used in combination with Lead/Zirconium. It is also used in Printing inks & varnishes as a drier. Cobalt Octoate is also used as accelerator in polymerization of unsaturated polyester resins. Cobalt is available as solution in MTO in various concentrations

CALCIUM

Calcium is an auxiliary drier. Alone it does not help drying, but in combination with Cobalt or Manganese, Calcium can replace lead, particularly in baking finishes. Calcium is also used to stabilize lead in water sensitive finishes or in such finishes where free acid is present e.g. alkyds of high acid value. The normal usage level of calcium varies from 0.02 to 0.2% of the metal. Calcium is available as solution in MTO in various concentrations.

LEAD

Lead is the most important auxiliary thorough drier. It is used with active driers like Cobalt and it promotes thorough drying by virtue of its polymerizing effect. Lead promotes hard thorough drying throughout the entire film, without effecting flexibility. Along with Lead, use of a small amount of Calcium and an active drier like Cobalt will be desirable. For internal & moderate external temp, these auxiliary driers work well with common active driers. Lead may not be used in aluminum paint where it interferes with leafing and has to be avoided in fume resistant paints as well. Govt. legislation now limits the lead content in residential paints to 0.86%. Lead is available as stable solution in MTO in various concentrations.

WE DRY YOUR WORLD OF COLOURS

MANGANESE

Manganese activates oxidation and polymerization and provides surface and thorough drying. In combination with Lead, Manganese may partially replace Cobalt. For hard & durable finishes, Manganese is the desirable drier. It is also effective in baking finishes. The amount of Manganese used may vary from 0.05 to 0.2% in combination with Lead / Zirconium and Cobalt. Manganese is used in fireside chemicals, along with Copper Naphthenate. Manganese is available as solution in MTO in various concentrations.

ZINC

Zinc is an auxiliary drier, used in conjunction with redox metals. The primary function of the Zinc is to keep the film "open" by retarding surface drying, thereby permitting hardening throughout and preventing surface wrinkling. Zinc is also a powerful wetting and dispersing agent and when incorporated early in the formulation, greatly reduces the time of mixing and grinding. Extremely low color of Zinc facilitates addition without discoloration of film. Zinc is available as a solution in MTO in various concentrations.

ZIRCONIUM

Zirconium is an auxiliary drier used in combination with Calcium, Cobalt and Manganese and it is an effective replacement for lead in such systems. Gloss, color, drying time, flexibility and other surface characteristics are improved. The use levels are 0.03 to 0.2% metal. Zirconium in its concentrated form acts as an auxiliary drier for high viscosity paints & printing inks. Zirconium does not perform well under adverse drying condition of low temperature & high humidity. In combination with Calcium, Zirconium achieves adequate drying time with less sensitive finishes. Zirconium is available as stable solution in MTO in various concentrations.

PRODUCT	APPEARANCE	COLOUR	SPECIFIC GRAVITY	VISCOSITY BY B-4 CUP Seconds	NON-VOLATILE MATTER 120°C % 1 hour	METAL %	M.T.O TOLERANCE
Aryadry Calcium 10%	Clear Liquid	Yellow Liquid	0.98 + /- 0.03	40 Sec. Max.	60 % Max.	10.0 +/- 0.2	1 : 19
Aryadry Manganese 10%	Clear Liquid	Reddish Brown Liquid	0.99 +/- 0.03	90 Sec. Max.	70 % Max.	10.0 +/- 0.2	1 : 19
Aryadry Cobalt 12%	Clear Liquid	Dark Violet Liquid	1.01 + /- 0.03	90 Sec. Max.	75 % Max.	12.0 +/- 0.2	1 : 19
Aryadry Zirconium 18%	Clear Liquid	Reddish Yellow Liquid	1.12 + /- 0.03	75 Sec. Max.	65 % Max.	18.0 +/- 0.3	1 : 19

- Apart from this, various low concentration paint driers is produced by us based on customer demand.
- Mix/Combination driers are also available/manufactured by us as per customer's requirement

INSTALET SERIES OF RUBBER ADDITIVES

To make rubber processing and dispersing easy AACPL has developed high quality rubber processing aids which suits for various tyre rubber like NR, SR, SBR, EDPM. Following grades are available.

- Instalet-T
- Instalet- PP
- Instalux-42
- Instalux-16
- Instalet SB-212
- Instalet SB - 222 etc.

for detailed spec, please contact
our rubber experts.



INSTALUX SERIES OF PLASTIC ADDITIVES

This product range of **ACPL** is fully developed and are may be equivalent to various esters of fatty acids and complex esters, carboxylic acid like

- Penta Esters of long chain fatty acids
- Glycerine Mono Stearates
- Cetyl Palmitate
- 2 Ethyle Hexyl Stearate, Palmitate, Oleates
- Lauryl Stearate etc.

for detailed spec, please contact
our plastic experts.



Sustainable Synergies.
Sustainable Solutions.

ARYAVART CHEMICALS PVT. LTD.

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