

Shanghai Saizhuang Chemical Technology Co., Ltd

# PVC Flooring Additives Catalog

**2025**





# About Us

Shanghai SaiZhuang Chemical Technology Co., Ltd. is headquartered in Shanghai, with 3 plants in China, Thailand, and a co-partner plant in Vietnam.

We specialize in PVC additives over 14 years and serving 90%+ of SPC flooring manufacturers in China. In 2023, we expanded our international business operations.

Our main products include **kinds of Ca-Zn stabilizer, PVC compound processing aid, PE wax, Internal lubricant, ACR, CPE**, etc.

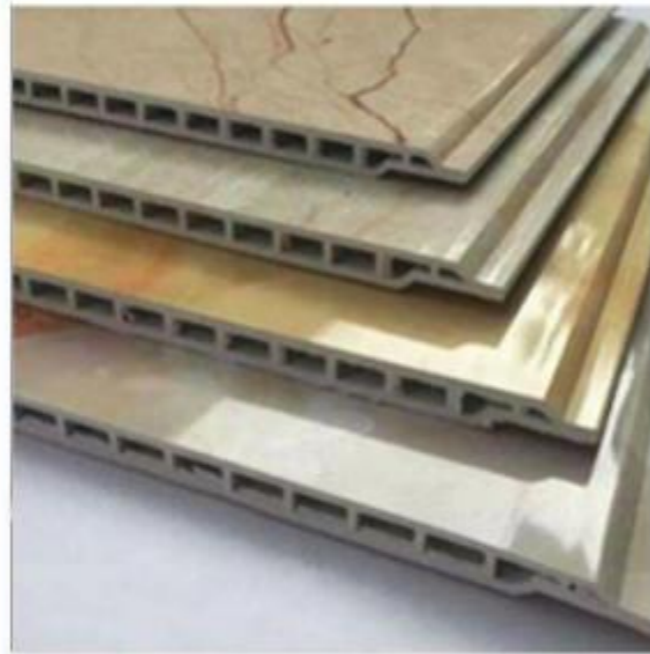
Hope to have you as our next client and look forward to building a long-term, beneficial partnership with you.



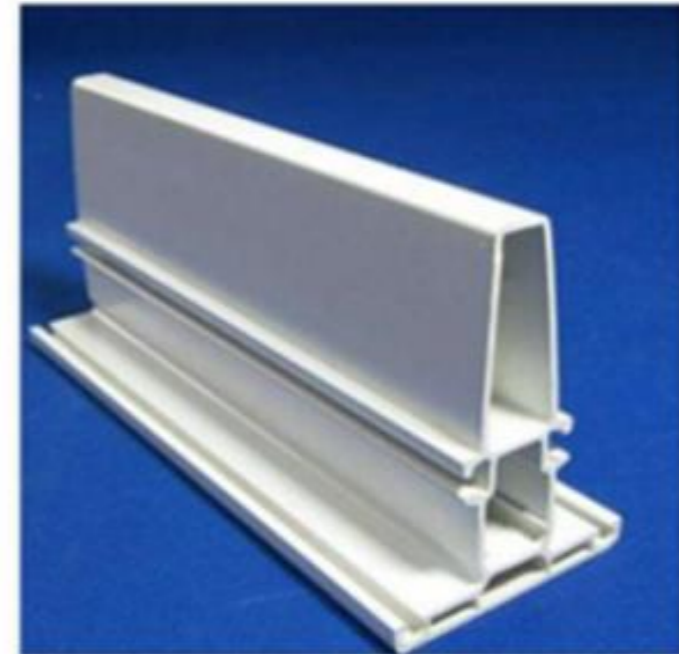
# We Serve



**SPC/WPC board & panel**



**PVC panel & ceiling**



**PVC window & door**



# We Serve



**PVC pipe & fitting**



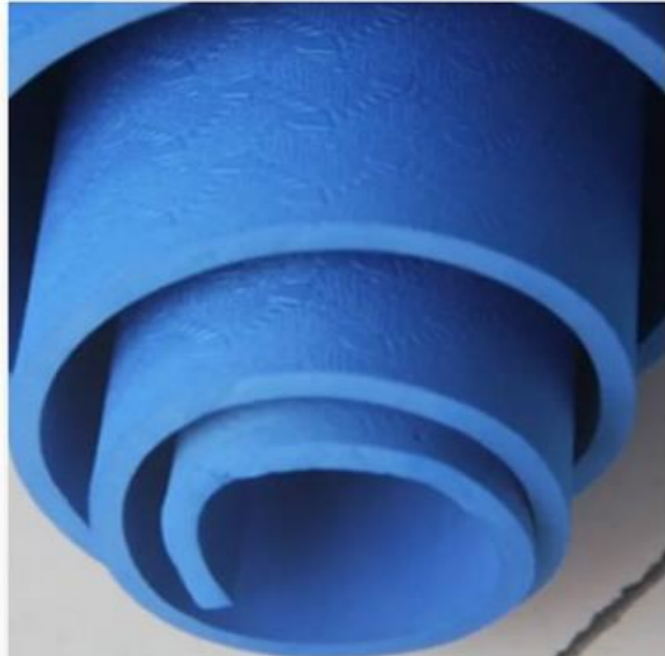
**U-PVC pipe & fitting**



**PE80/PE100 PIPE & Fitting**



# We Serve



**EVA foam products**



**PVC foam board & panel**



**PVC sheet & film**

# Our Products



Ca-Zn Stabilizer



Compound  
Processing aid



PE Wax



Internal Lubricant



Processing Aid ACR



Processing Aid CPE



## Ca-Zn Stabilizer

### Environmental Ca-Zn Stabilizer for SPC J-300, SZ-526, SZ-138 Series

#### Product Introduction

PVC environmental protection stabilizer is a Ca-Zn organic complex, with the properties of heat stabilizer, light stabilizer, anti oxidant, internal and external lubricant.

Adopting a new process and formula, it has good compatibility and dispersion with PVC resin oil. Small dosage, small coloring at the initial state, good fluidity, excellent heat resistance, light resistance and weather resistance in use.

#### Product Features

- Reduce extrusion torque, reinforced the melting rate and melting strength and offer smoother surface to products.
- Anti-oxidation, anti-aging and nice weather resistance, no color changing for long time for white and light color products
- Good electrical insulation properties, good resistance to ozone, water and oil. Good processing performance, no precipitating or blooming.
- Good initial coloring ability, long-term static and dynamic stability





## Product Application

SPC products and kinds of hard PVC products

|                             |   |
|-----------------------------|---|
| Product name/specification  | J-300, SZ-526, SZ-138 series  |
| Appearance                  | Purewhitetolightyellowpowder  |
| Environmentalperformance    | Cd<2ppm, Pb<30ppm, Hg<2ppm, Cr6+<2ppm, Br<2ppm                              |
| Initialheatresistance       | There isno obvious color difference compared with the standard              |
| Longtermheatresistance(min) | 30 ± 3  |
| Volatile(105°C×2H)          | ≤2%   |
| Precipitationexperiment     | There was no obvious white precipitate in distilled water at 100 °C for 4 H |



## Environmental Ca-Zn Stabilizer for WPC foaming B-200 Series

### Product Introduction

It is a high-tech product applied to PVC foam products, which is compounded by calcium and zinc and others.

Non-toxic and environmentally friendly, comply with RoHS, REACH-SVHC, PAHS,NO-18P, EN Environmental requirements

### Product Features

- Excellent initial color stability and good weather resistance.
- Good precipitation resistance to help improve color fastness and color brightness, improve products appearance.
- It can enhance the toughness of the product and improve the dimensional stability of wood-plastic products
- Promote foaming, make the foaming even and dense, and at the same time give the product surface a clear texture and excellent gloss.

### Product Application

Applicable to sheet material, granular material, sheet material, profile and other PVC foam products.

Applicable to series products such as wood plastic wall board and floor.





## Environmental Ca-Zn Stabilizer for PVC soft wire and cable B-100, B-101, B-102 Series

### Product Introduction

Universal heat Ca-Zn stabilizer for PVC soft wires and cables

### Product Feature

- Easy to process, excellent heat resistance to reduce PVC aging by heat.
- Good weather resistance for white, light products. Good precipitation resistance for dark black products.
- Good surface finish, good electrical insulation properties, good resistance to ozone, water and oil. Good water absorption resistance. Odorless and easy for secondary processing.

### Product Application

Applicable to general J70-90, H70-90, UL70-105, VDR and kinds of standard and non-standard wire/cables.

Applicable to environment-friendly PVC granulated material, wire sheath, power cord, plug material.





# PVC Processing Aid

## PVC Compound Processing Aid SZ-138

### Product Introduction

PVC Compound Processing Aid SZ-138

It's only used for SPC flooring products. PVC Compound Processing Aid SZ-138 is a one pack processing aid, with it in raw materials, there's no need to add PE wax, Internal lubricant, ACR or CPE. It can improve the strength, flexibility, appearance quality and various physical, chemical indicators of PVC products. Meanwhile, the cost could be reduced 15-18% compared with traditional formulation. For 5 production lines (daily capacity is 40MT) it can help save USD\$439K at least.

1st, this product can reduce the processing temperature by improving the processing performance of rigid PVC, promote the plasticization and melting of PVC resin.

2nd, it can improve PVC products appearance quality by improving the mechanical strength & melt strength; improving the thermal flow performance & extrusion speed of PVC resin, improving the elongation performance, etc. The inside and outside of PVC products are more uniform.

3rd, the finished PVC product has excellent weather resistance, ozone resistance, chemical resistance and aging resistance, and has good oil resistance, flame retardancy and coloring performance.



## PVC Processing Aid ACR

### Product Introduction

PVC processing aid ACR is mainly used to improve the processing performance of rigid PVC, promote the plasticization and melting of PVC resin, and reduce the processing temperature.

By improving the mechanical strength, improving the melt strength; improving the thermal flow performance and extrusion speed of PVC resin, improving the elongation performance, etc., to make the inside and outside of PVC products more uniform and improve the appearance quality of products.

### Product Specification

| Model                                | Q-158   | Q-168    | Q-401     | Q-908     |
|--------------------------------------|---------|----------|-----------|-----------|
| Viscosity(25°C)                      | 0.5-1.5 | 3.0-4.0  | 6.0-8.0   | 11.5~12.5 |
| Moisturecontent(%≤)                  | 1.5     | 1.5      | 1.5       | 1.5       |
| apparentdensity(g/cm <sup>3</sup> ≥) | 0.5±0.1 | 0.45±0.1 | 0.40±0.05 | 0.40±0.05 |



## PVC Processing Aid CPE

### Product Introduction

It is a saturated polymer material, the appearance is white powder, non-toxic and tasteless, it has excellent weather resistance, ozone resistance, chemical resistance and aging resistance, and has good oil resistance, flame retardancy and coloring performance. Good toughness to improve PVC products flexibility.

### Product Specification

| Material                                    | CAS Number | %   |
|---|------------|-----|
| CHLORINATED POLYETHYLENE CPE CACO3<br>30PCT | 64754-90-1 | >95 |
| TALC, CONTAINING NO ASBESTOS FIBERS         | 14807-96-6 | <2  |
| CALCIUM STEARATE                            | 1592-23-0  | 0-2 |
| CALCIUM CARBONATE                           | 471-34-1   | 0-2 |



# PVC Processing Lubricant

## Polyethylene Wax

### Product Introduction

Our polyethylene wax is a series of safety and environmental protection products independently that developed by ourself company. This series of products can reduce the precipitation and agglomeration of PVC heat stabilizers during processing, improve their fluidity, thereby increasing the extrusion efficiency of PVC products and improving the surface gloss of products.

### Product Specification

| Model                       | S-100         | S-105         | Q-110         | Q-115         |
|-----------------------------|---------------|---------------|---------------|---------------|
| Appearance                  | Platy/powdery | Platy/powdery | Platy/powdery | Platy/powdery |
| Color                       | white         | white         | white         | white         |
| Softeningtemperature        | 100±2℃        | 105±2℃        | 110±5℃        | 115-120℃      |
| MeltViscosity (140℃)<br>cps | 10-20         | 30-40         | 40-60         | --            |
| Penetration(dmm)            | <1            | <3            | <5            | --            |
| Density(g/ml)               | 0.92          | 0.93          | 0.95          | --            |



## Polyethylene Wax Luwax OA of BASF wax powder

### Product Introduction

BASF wax powder Luwax OA is an oxidatively modified polyethylene wax with high-cost performance, high hardness, high density and high molar mass. It is suitable for emulsifying wax industry and plastic industry, as it has the function of delaying plasticizing time and lubricating inside and outside.

Product has the following characteristics:

- .High viscosity, good adhesion
- .Good anti-scratch performance
- .Excellent slip performance
- .Good polymer compatibility, easy to apply
- .Good bright effect.



**Product Specification**

| Specification       | Unit               | Qa6      |
|---------------------|--------------------|----------|
| Meltingpoint        | °C                 | 126-133  |
| BH(Fischer, 23°C)   | N/mm <sup>2</sup>  | 56-66    |
| Penetration (23°C)  | mm                 | Ca.1     |
| Acidvalue           | mgKOH/g            | 17.5-19  |
| Saponificationvalue | mgKOH/g            | 20-30    |
| Molarmass           | g/mol              | Ca.11000 |
| Viscosity (120°C)   | mm <sup>2</sup> /s | -----    |
| Density (23°C)      | g/cm <sup>3</sup>  | Ca.0.99  |





## PVC Internal Lubricant S60

### Product Introduction

PVC internal lubricant S60 are widely used in PVC foam products, profiles, plates and other products. They are comprehensive lubricants with high compatibility.

They have almost no effect on the plasticizing time so it could be used for complex cross-section processing and flow regulation during injection molding.

They can improve processing performance and improve the surface finish of products.

### Product Specification

| Model                   | Q - 60      | Q - 70      |
|-------------------------|-------------|-------------|
| Density (g/cm)          | 0.860~0.890 | 0.860~0.890 |
| Refractiveindex(80°C)   | 1.443~1.453 | 1.453~1.463 |
| Viscosity [mpa.S(80°C ) | 20-30       | 10-16       |
| Acidvalue(mgKOH/g<)     | 5           | 10          |
| Iodinevalue(gl2/100g<)  | ----        | 1           |



## Special Lubricants

### Product Introduction

Specialty Lubricant has excellent coring ability for partially crystalline plastics and is an effective lubricant for many polymers. It has high resistance to decomposition temperature, good thermal stability at high temperature, low volatility, good mold release and fluidity.

It can be used in transparent products to improve clarity and surface finish. It can be used as a plasticizer for plastics, natural rubber, and synthetic rubber, and as an internal and external lubricant.

### Product Features

- Excellent antistatic property
- excellent surface activity
- thermal stability
- good grease
- Resin Compatibility

**Product Specification**

| Specification                 | Special Lubricants |
|-------------------------------|--------------------|
| Appearance                    | White powder       |
| Aid Value (mgKOH/g)           | $\leq 2$           |
| Iodine Value (mgKOH/g)        | $\leq 2$           |
| Hydroxyl value (mgKOH/g)      | 25-35              |
| Saponificationvalue (mgKOH/g) | 160-185            |
| Melting point (°C)            | 55-65              |



# Lead-free Carbon Black

## Product Introduction

Carbon black is a product of incomplete combustion of hydrocarbon compounds, in the form of pure black powder or granules. Insoluble in water, there are acid and alkali points. The main component is carbon with traces of hydrogen, oxygen, sulfur, ash, tar and moisture.

## Product Application

The role of carbon black is mainly as a colorant.

Widely used in paint toning, ink colorant, raw material of black paste, filling of color masterbatch, anti-ultraviolet of black sealant, dyeing of building materials, wire and cable, leather, plastic and many other fields.

## Product Specification

| Specification                             | Carbon Black SZ-910 | Carbon Black SZ-900 |
|---|---------------------|---------------------|
| Appearance                                | Black powder        | Black powder        |
| iodine value g/kg                         | 90                  | 72                  |
| Oil absorption value of compressed sample | 58                  | 60                  |
| tinting strength                          | 125                 | 42                  |
| Impurities                                | n/a                 | n/a                 |
| PH Value                                  | 8                   | 7.9                 |
| Amount of heat reduction                  | 0.5                 | 0.5                 |
| Ash content                               | 0.7                 | 16                  |

# Our Market / Clients

We focus on PVC Ca-Zn stabilizer field and supply kinds of products for rigid PVC industry. Main markets include South-East, Middle-east Euro, South America, Africa. Main clients include: *Tianzhen, Zhongxin, Huali, Yihua, Jinka, BBL, Darke, Kentier* etc.

Our vision:

We are committed to providing our customers with a range of eco-friendly products that contribute to a healthier, greener lifestyle.

Our goal is to enhance the quality of human life.

# Quality Standard

All products comply with below certifications:



RoHS



Reach-SVHC



PAHS



EN

# Our Services

- Professional technical service, trade service (domestic and international ), after-sales service.
- Help customer create maximum value with best price-benefit products to occupy unique market
- Providing professional chemical additive solutions for each customer per different requirements
- Develop products with special parameters according to customer needs
- Sharing the latest industry product information and achievements with customers to make win to win business



# Contact Us

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# Thank You