

Shanghai Saizhuang Chemical Technology Co., Ltd

# PVC Additives Product Catalog

2024





# About Us

Shanghai SaiZhuang Chemical Technology Co., Ltd Company is located in Shanghai and with 2 factories in Anhui, Jiangsu province.

We focus on PVC plastic additive products over 13+ years, serve **90%+** SPC flooring manufacturers in China and started international business in the year 2023. Main products includes **PVC Ca-Zn stabilizer, PVC compound processing aid, PE wax, Internal lubricant, ACR, CPE, Carbon black**, etc.

Hope to have you as our next client and provide you with our services to establish a sustainable partnership and achieve mutual benefits for both of us.





# We Serve



U-PVC pipe & fittings



PVC panel & ceiling board

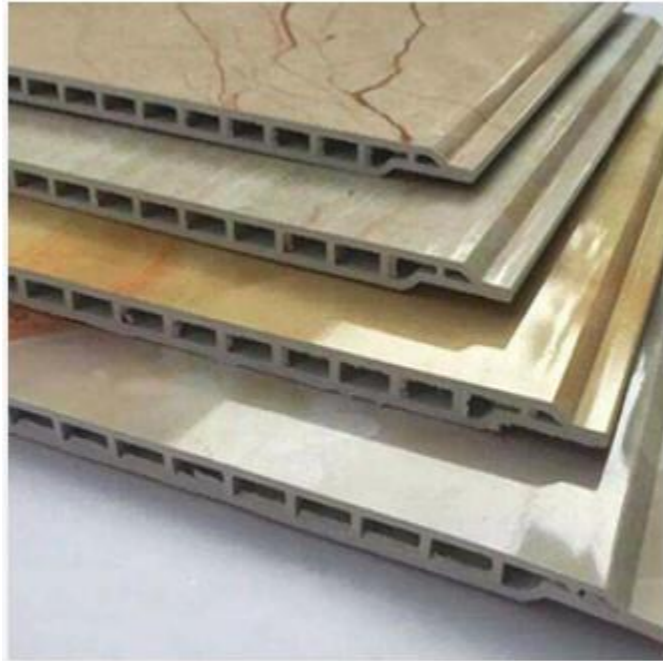


PVC sheet & film





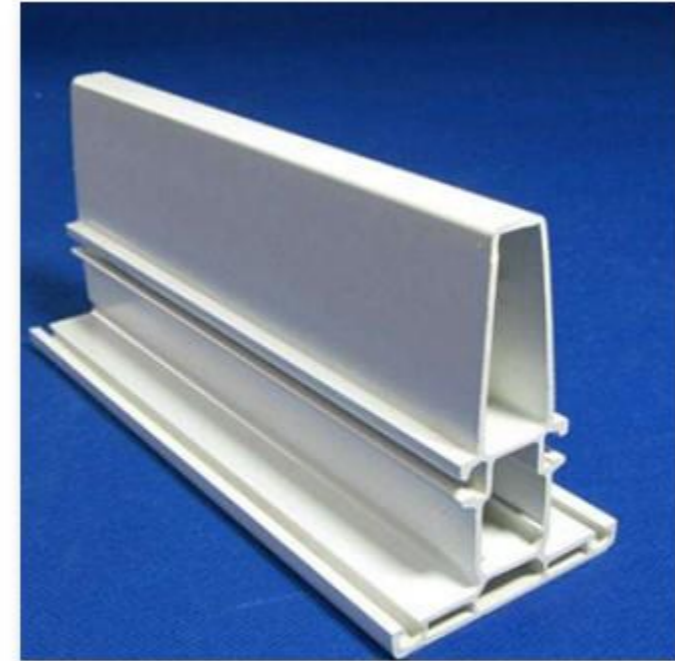
# We Serve



PVC & WPC foam board



PVC Compound

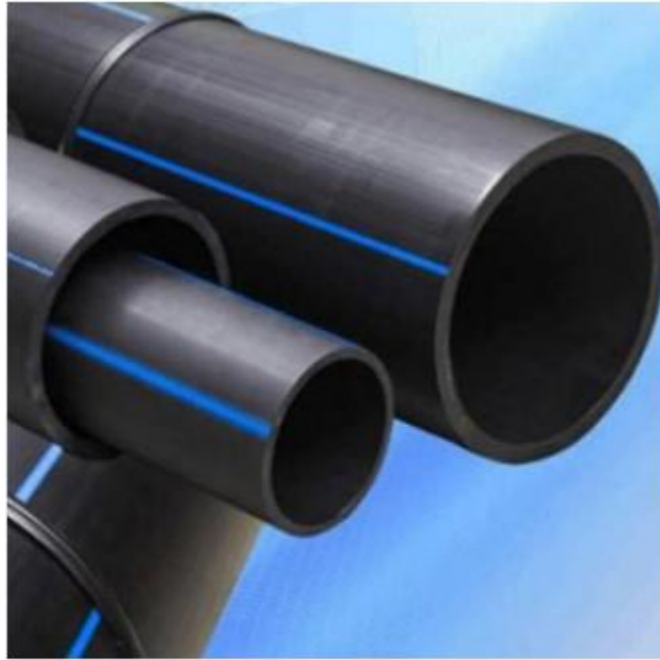


PVC window & door





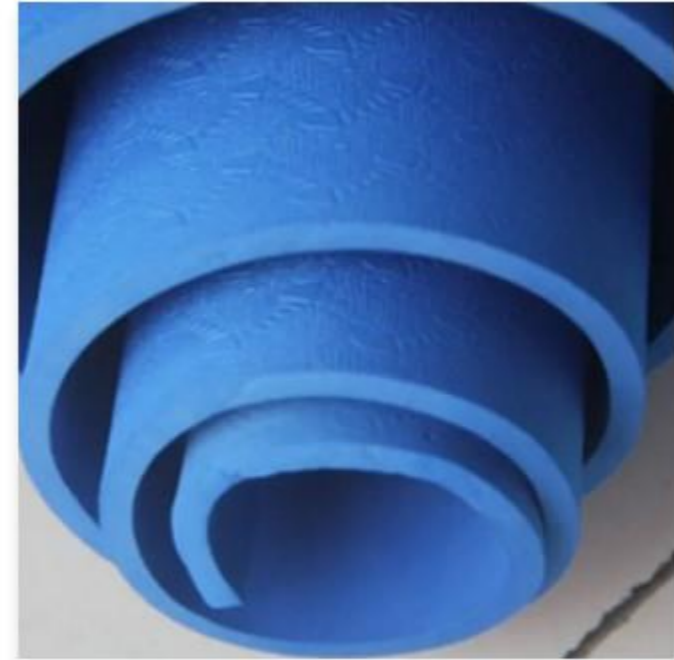
# We Serve



**PE80/PE100 PIPE AND FITTING**



**PPR PIPE AND FITTING**



**EVA foam products**



# Our Products



Ca-Zn Stabilizer



PVC Processing  
Aid



PVC Processing  
Lubricant



Carbon Black



# Ca-Zn Stabilizer

## Environmental Ca-Zn Stabilizer for SPC SZ-701 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



# Shanghai Saizhuang Chemical Technology Co., Ltd

## Product Application

SPC products and kinds of hard PVC products

Product name/specification	SZ701series
Appearance	Purewhitetolightyellowpowder
Environmentalperformance	Cd<2ppm, Pb<30ppm, Hg<2ppm, Cr6+<2ppm, Br<2ppm
Initialheatresistance	Thereisnoobviouscolordifferencecomparedwiththestandard
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 SZ-702 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 SZ-035 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.



## Environmental Ca-Zn Stabilizer for Transparent PVC (hard) SZ-500 series

### Product Introduction

Environmental Ca-Zn Stabilizer for hard Transparent PVC products

### Product Feature

- High transparency, no fog on product surface.
- Odorless and good hydrolysis resistance
- Excellent initial collocability and long-term weather resistance.
- Excellent heat resistance, high efficiency thermal stability, less addition in use.

### Product Application

Environmental transparent PVC products such as PVC granule, file, plastic toys, PVC soft and hard transparent products.



**Environmental Ca-Zn Stabilizer for Transparent PVC(soft)  
SZ-031 series**

**Product Introduction**

It's white or light-yellow powder.

It is an organic complex. Main components are high-grade fatty acid calcium which is compounded by a special process with high-grade fatty acid zinc, high-performance heat-resistant additives, main oxidants, auxiliary oxidants.

**Product Features**

- Excellent heat resistance to avoid PVC aging by heat, easy to process.
- Good long-term weather resistance and anti-yellowing for white and light color products, good precipitation resistance for dark black products.
- Odorless and easy for secondary processing.
- Good surface finish, good water absorption resistance.

**Product application**

Environmental PVC granule, PVC hose, sealing strip, calendared film and other soft products.



# PVC Processing Aid

## PVC Compound Processing Aid S-11

### Product Introduction

PVC Composite Processing Aid S-11

PVC Composite Processing Aid S-11 is a composite formula, mainly used to replace the traditional ACR+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 ACR+CPE.

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.



## ACR PVC Processing Aid

### 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



## CPE PVC Processing Aid

### 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 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 Foaming Regulator

### Product Introduction

PVC foaming regulator is a random copolymer with high molecular weight linear distribution. It is mainly used to improve the cell uniformity of rigid PVC low-foaming products and improve the appearance quality of products.

Promote the plasticization and melting of PVC resin, improve the melt strength of PVC materials, and prevent bubbles from merging to obtain uniformly foamed products.

This product is white powder. Insoluble in water and ethanol, it can be dissolved or swelled in ether, ketone and chlorinated hydrocarbon.

### Product Specification

Model	W - 6 1 0	W - 6 3 0	W - 6 5 0
Appearance	Whitefree- -flowingpowder	Whitefree- -flowingpowder	Whitefree- -flowingpowder
Viscosity(25°C)	12.5±0.5	11.5±0.5	12.0±1.0
Volatilization(%≤)	1.5	1.5	1.3
Diameter [Aperture0.45mm (40) ] ≥	98%pass	98%pass	98%pass





# 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℃) 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.



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## Product Specification

Specification	Unit	O a 6
Meltingpoint	°C	126-133
BH(Fischer, 23°C)	N/m m 2	56-66
Penetration (23°C)	d m m	Ca.1
Acidvalue	mgKOH/g	17.5-19
Saponificationvalue	mgKOH/g	20-30
Molarmass	g/mol	Ca.11000
Viscosity (120°C)	m m 2/s	-----
Density (23°C)	g/cm 3	Ca.0.99



## PVC Internal Processing Lubricant

### Product Introduction

PVC internal processing lubricant 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



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## 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



# 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



# Main Market

We focus on PVC plastic additive products and supply kinds of products for stone plastic industry. 90%+ China mainland SPC manufacturers are our customers.

Plus, we also have out Vietnam factory and supply our products to South East Asia market, includes Vietnam, Thailand, Malaysia, India etc.

Now we are promoting more market, such as East Europe, South America etc. To provide our customer more ecological and environmentally friendly products, to create our healthy green life. To make life better, better life.





# Quality Standard

All products comply with below certifications:



RoHS



Reach-SVHC



PAHS



EN



# Our Service

- 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

