

# QINGDAO JIERUIXIN

## MACHINERY AND TECHNOLOGY CO., LTD.

Specialist for paper coating industries





QINGDAO JIERUIXIN Machinery Technology Co., Ltd., in line with the promotion of key business, diversified developing paper coating industry concept, deeply working in the paper coating industry for more than ten years, service thermal paper, dye sublimation paper, NCR paper, and other kinds. Now, the investment includes the mechanical manufacturing center, paper coating and experimental base center, coating preparation and other industries. Provide each customer a one-stop paper coating solution. The services provided by our company include workshop layout design, equipment installation,



auxiliary machine purchase, operation debugging, staff training and marketing planning. In good faith, excellent service, to help every customer expand the auspicious industry.

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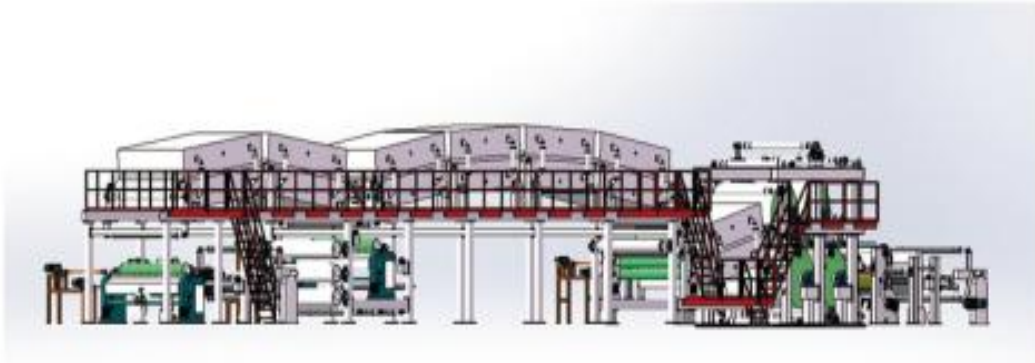
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# THERMAL PAPER COATING MACHINE



Main Technical Parameters

Paper type	Thermal Paper
Machine width	Customized
Machine speed	Customized
Coating type	Blade knife/Air knife/scraping bar
Machine type	Single coating/Double coating





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# THERMAL PAPER COATING CHEMICALS

## Finished thermal paper coating chemicals

- Thermal paper coating chemical A

Chemical Name: 3-Dibutylamino-6-methy-7-anilinfluora

CAS#: 89331-94-2

Chemical Formula: C<sub>33</sub>H<sub>36</sub>N<sub>2</sub>O<sub>3</sub>

Percent: (40±2)%

Moisture content: 60%

Color : Blue image/ Black image

Appearance: Liquid

Effective constituent: chemical "A" is the dye

PH: 5-8



- Thermal paper coating chemical B

Percent: (40±2)%

Moisture content: 60%

Appearance: Liquid

Effective constituent: chemical "B" is the color developer, filler and other auxiliary agent

PH: 7-10



- Aspect of usage

Suitable for customers without grinder

Suitable for customers without experience in thermal paper production, simple and convenient operation.

# THERMAL PAPER COATING CHEMICALS

## Main raw material

### ● ODB-2

CAS No: 89331-94-2

Molecular weight: 532

Molecular Formula: C<sub>35</sub>H<sub>36</sub>N<sub>2</sub>O<sub>3</sub>

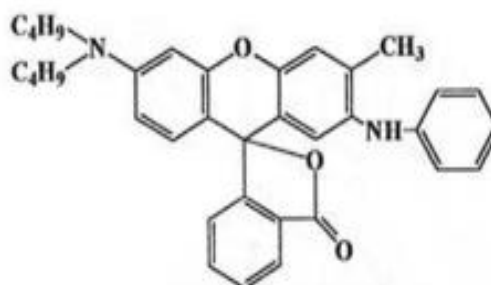
Purity: ≥99.0%

Appearance: White to off-white powder

Melting point: 182-185

Loss on drying: ≤0.3%

Insoluble in toluene: ≤0.3%



### ● CVL(Crystal Violet Lactone)

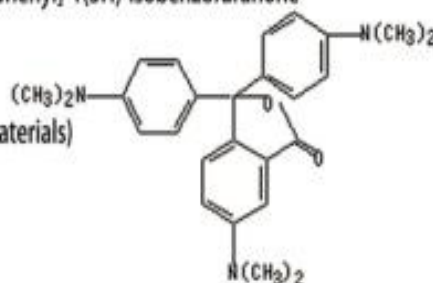
CAS: 1552-42-7

Chemical Name: 6-(Dimethyl)-3,3-bis[4-(dimethylamino)phenyl]-1(3H)-isobenzofuranone

Chemical Formula: C<sub>26</sub>H<sub>29</sub>N<sub>3</sub>O<sub>2</sub>

Appearance: white powder

Percent: 96.0% relative matters (cvl salt or cyclo open materials)



### ● BPA

Appearance: Clesn, free-flowing, dust-free prills

Purity: 99.85% Min

Melting Point: 156.5 C Min

Water: 0.1% Max

Phenol: 100 Max (Mg/Kg)

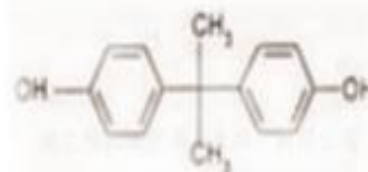
Isomers: 1000 Max (Mg/Kg)

Btx: 400 Max (Mg/Kg)

Iron: 1 Max (Mg/Kg)

Molten Color: 20 max (Pt/Co Scale)

Ash: 5 Max (Mg/Kg)



雙酚 A(Bisphenol A)

# THERMAL PAPER COATING CHEMICALS

## Main raw material

### ● BON

BENZYL-2-NAPHTHYLETHER99.5%

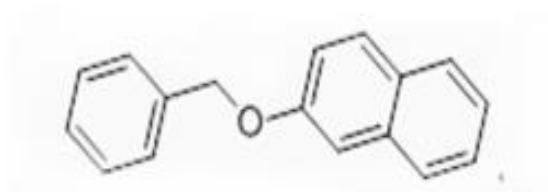
CAS No: 613-62-7

Other name: Benzyl ether

MF: C<sub>17</sub>H<sub>14</sub>O

Purity: 99.5%

Type: Thermal Paper Sensitizer



### ● DPE

CAS NO: 104-66-5

MOLECULAR FORMULA: C<sub>14</sub>H<sub>14</sub>O<sub>2</sub>

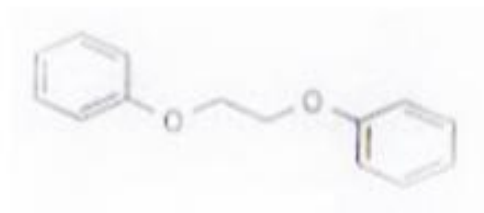
MOLECULAR WEIGHT: 214.26

Appearance: White crystal

Melting point: 95-98°C

Insoluble residue: ≤0.2%

USAGE: Sensitizer, It can be used in most grades of heat-sensitive paper, to produce intense black image with excellent image stability, to exhibits high thermal sensitivity.



### ● Dispersant

Dispex is used in paper coating, it has distributed high efficiency dispersing agent, coating viscosity stability, low foam, non-toxic, non-corrosive, can paint solid content increased, and good liquidity and scrub, to maintain the paper Commodities gloss, not easy to change mold. It can be used to improve the water-based paint in the paint viscosity, stability, making coating tinting strength, gloss, color retention, improved fire weather resistance.

Ingredients: special anionic polycarboxylate

Appearance: Liquid

Solid content: 25%

Specific gravity: 1.15

PH Value: 6-7





# NCR PAPER COATING MACHINE



Main Technical Parameters

Paper type	NCR/Carbonless Paper
Machine width	Customized
Machine speed	Customized
Coating type	Air knife
Machine type	Single coating/Double coating





# NCR PAPER COATING CHEMICALS

## Main raw material

### ● Microcapsule

Particle size: 4-6 $\mu$ , narrowly distributed, medium fastness.

Solids content:  $\geq 40\%$

PH: 8-10

Color: Blue or black

Viscosity: 20-100 mPa.s at 20

Stable over 6 months when stored sealed

In plastic rubber drum, 200kg/drum



### ● Resin color developer

Rapid color development at low temperature. Especially when the temperature is below 10, this advantage still exists.

Suitable for any CF compositions consisting of resin or clay-resin.

Relatively thinner coating.

The rheological property and thixotropy of CF paste are good, suitable for any coating method.

Good stability when stored.



### ● SBR Latex

Coagulum %:  $\leq 0.01$

Solid %:  $50 \pm 2$

PH value: 7.0-9.0

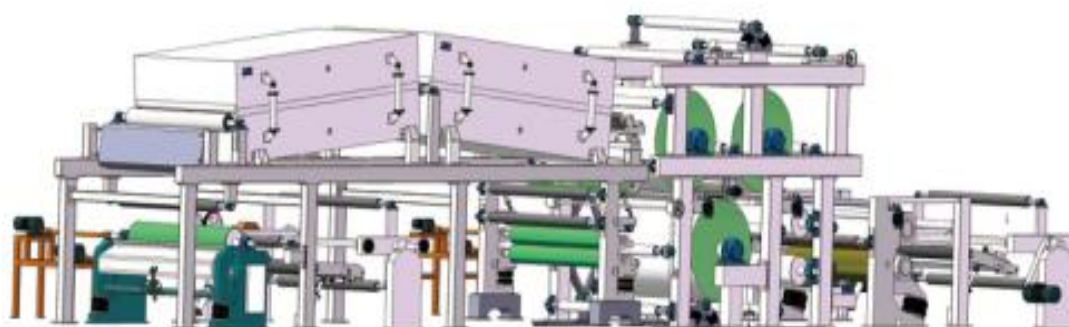
Viscosity mPas:  $\leq 200$

Surface tension(mN/m): 40-55

Packed in plastic bucket, 200kg  $\pm$  1 drum, sealed, the temperature is -40 C, transported with the train and automobile.



# SUBLIMATION PAPER COATING MACHINE



## Main Technical Parameters

Paper type	Sublimation paper
Machine width	Customized
Machine speed	Customized
Coating type	Blade knife/Air knife/scraping bar
Machine type	Single coating/Double coating



# SUBLIMATION COATING CHEMICALS

MODEL: JRX-01G

PRODUCT APPEARANCE: WHITE POWDER

WATER INSOLUBLE IMPURITY:  $\leq 0.1\%$

CONSUMPTION OF PER SQUARE METER(GSM): 8-10  
(DRY WEIGHT)

FINISHED COATING VISCOSITY(CPS): 1000-2000

TRANSFER RATE: 93-95%

PH: 7-8

PRODUCT TYPE: 1. AIR KNIFE

2. BLADE KNIFE

3. CUSTOMIZED

PACKAGE: 25KG COMPOSITE KRAFT PAPER BAG OR CONTAINER BAG, OR AGREEMENT  
PACKAGING

STORAGE: COOL AND DRY PLACE, FOR TWO YEARS





# WHITE TOP LINER COATING MACHINE



Main Technical Parameters

Paper type	Cardboard Paper
Machine width	Customized
Machine speed	Customized
Coating type	Blade knife/Air knife
Machine type	Single coating/Double coating





## PAPER COATING MACHINE PARTS



**Zirconia beads**



**Paper machine blanket**

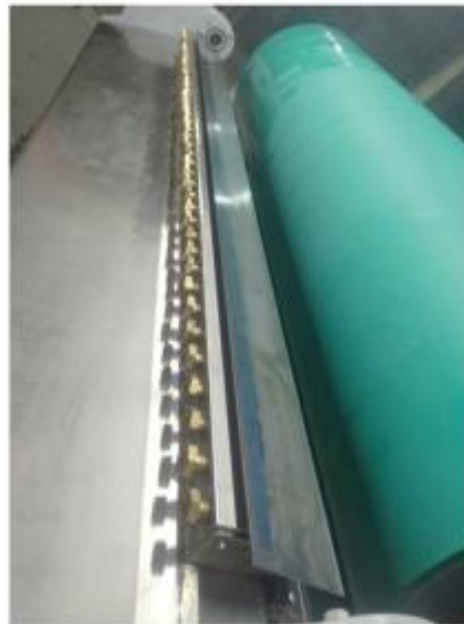


**Dye net/Dyer screen**



**slitting knife**

## PAPER COATING MACHINE PARTS



Blade knife/Doctor blade



Coating preparation system



Calender

# EXPORTING COUNTRIES





## OVERSEAS PROJECT



**Vietnam**

NCR PAPER

PAPER MACHINE

**Brazil**

THERMAL PAPER  
COATING MACHINE





# OVERSEAS PROJRCT

Egypt--Cardboard paper coating machine



Mexico--Thermal paper coating machine



# COATING CHEMICALS TECHNOLOGY

## ● NCR paper coating formulation

CB: microcapsule, cassava starch, spacer, SBR Latex and etc.

CFB: Resin Color Developer, microcapsule, cassava starch, spacer, SBR Latex, NaOH, dispersant, kao lin clay, CaCO<sub>3</sub> and etc.

CF: Resin Color Developer, cassava starch, SBR Latex, NaOH, dispersant, kao lin clay, CaCO<sub>3</sub> and etc.

## ● Thermal paper formulation

Howlow ball resin, ODB-2, BPA(bisphenol A), CaCO<sub>3</sub>, Dispersant, NaOH, calcium stearate , lubricant, Water-based zinc stearate, BON, wetting agent, Liquid brightener, paraffins, Emulsion

## ● White top liner formulation

CaCO<sub>3</sub>, Dispersant, NaOH, Antifoam, SBR Latex, CMC, lubricant and etc.



# OUR SERVICE COMMITMENT

Service is a product of the brand economy. As a brand, our service runs through the entire life cycle of the product.

## PRE-SALES

Mechanical products are different from general consumer products, and most of them are customized products, which puts higher requirements on pre-sale services. We have excellent team and rich experience and can provide customers with comprehensive pre-sales consulting, project design, difficult answers and other services. If you have the requirement, we can provide turnkey projects.

## ORDER EXECUTION

1. Resolutely do not use unqualified products, unqualified raw materials, strictly in accordance with the specification of the production process. Before shipment, test assembly in the factory would be carried out, and we are ready to accept inspection at any time.

2. Free supply of necessary spare parts along with the host product.

3. After delivery of the equipment, provide the necessary technical information and guidance documents to formulate the installation plan.

4. According to the use and the vulnerability of equipment parts, reasonable packaging is adopted to meet the requirements of moisture proof, rust proof, anti-impact and shock proof, so that the goods can be safely transported to the scene.

## AFTER SALES

1. After goods arrival, the engineer is responsible for onsite installation, commissioning, and training. After the commissioning, our personnel can withdraw after obtaining the user's consent.

2. After-sales staff are responsible for creating user profiles to improve product quality, and accepting and collecting user feedback information.

3. Our service methods

√Telephone, email communication, software problems can be remotely controlled.

√Send the parts to be replaced to the user by express or shipping.

√If conditions permit, we can send an agent to perform services locally.

√Our Chinese engineers will come to you and carry out repairs.

## SERVICE PURPOSES

As a supplier, we thank you for your trust and choice of our company. If you have any suggestions and requirements for our products, please inform us in time which will provide us the basis for quality improvement in the future. We will continue to strive for excellence, to provide customers with the most satisfactory products and services.





Get in touch

#### CONTACT US

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