Applications and Achievements of Asahi Chemical Products

 \sim Asahi Chemical products are used in such places \sim



What are Asahi Chemical products?

Ink · Paste, Conductive, Insulation …

- They are some of the electronic materials used in electronic products, and in viscous liquid state.
- They are mainly used by screen printing. They have characteristics such as conductivity (insulation), color, resolution, and flexibility.



• • •

Product (container) appearance



Screen printing (Example of silver paste screen printing)

Photo cooperation : Micro-tec Co., Ltd.

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Introduction of applications and achievements(1)

Automobile

The electrification, weight reduction, and integration of automobiles accelerate, and the inks are replacing some of the materials used in the conventional electrical components. In addition, the applicable place of ink are diversifying due to the increasing demand for sensors and heaters.

Room mirror



• For room mirror electrodes : Silver paste

Console part



Operation touch panel : Silver pasteThrottle sensor : Carbon paste



Car navigation system



- Touch panel
 - : Silver paste for bezel part wiring
 - : Insulation paste
 - : Masking ink

Head/Tail lamp



Heater wiring : Silver paste
Wiring insulation protection

Insulation paste

*For the products in photos, we are posting those that are expected for our products to be applicable or those that have been adopted.

Computer

A large amount of ink is also used for PC and notebook PC displays, substrates, and parts. They are used for a wide range of purposes, such as for circuits, for insulation, and for sensors.



Smartphone

Asahi Chemical's inks are used for substrates, sensors, camera modules, and protection along with higher functionality, lighter weight, and faster communication for smartphones.

Display





Touch panel
 Silver paste for p

Silver paste for picture frame wiringInsulation paste, : Masking ink

Camera module



Camera module FPC : Insulation paste
 Plating resist ink



Bending part · Electromagnetic wave shield





EMI shield : Silver paste
 Insulation paste

Fingerprint authentication



Fingerprint authentication sensor part
 Silver past, : Insulation paste

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Medical, Healthcare

We have a long adoption results in disposable medical devices. In recent years, we are also expanding our actual achievement to wearable and biological sensor applications.

Thermo cutter



• Disposable tube cutter : silver paste

Biological sensor



Sensor electrode : Elastic silver paste
Sensor : Carbon paste





Blood glucose sensor



- Sensor part : Carbon paste
- Sensor wiring : Silver paste
- Wiring protection : Insulation paste

Others

Wiring : Silver paste
Pressure sensor part : Carbon paste

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Masking ink introduction (Hand peeling type, Alkaline peeling type)



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Automobile

Room mirror part

Intended use	Product name
For room mirror electrodes	● LS-504ET-3

Console part

Intended use	Product name
For 3D touch sensor Circuit wiring	●LS-610-7 ●LS-610-9A
For 3D touch sensor Insulation and protection	• CR-80T-7
For throttle sensor sliding part	●BTU-OO-10 series

Car navigation

Intended use	Product name
Touch panel picture frame wiring	•LS-463-1(1500) etc.
For circuit/wiring insulation Heat cuing	●FR-1T-NSD9 ●FR-1T-US1
For circuit/wiring insulation UV curing	•UVF-31T
Dot spacer	•UVF-10T-DS
Temporary protective film for glass and ITO surfaces	• #503 series

Head/tail lamp part

Intended use	Product name
For special substrate and wiring	●LS-612-1
Circuit/wiring Insulation application	•UV curing type insulation paste
● Silver paste ● Carbon ● Insulation paste	paste • Masking ink • Plating resist ink

Personal Computer

Key	/bo	ard
/		

Product name
• SW2200C
●TU-10S ●FTU-16R ●FTU-00-3
● FR-1T-NSD9 ● FR-1G-2 ● CR-62B ● CR-75B ● CR-18T-KT1 etc.
Product name
•SW1100-1 •SW2200C
●UVF-30T ●UVF-10T(KAI)
•FCR-80W-30 •FCR-82W-30
MR-303 series
Product name

Intended use	Product name
Light source unit Insulation protection	•UV curing type insulation paste
Process protection of glass substrate for display	 Plating resist ink Masking ink

Touch pad

Intended use	Product name
Pressure sensitive touch sensor	● Carbon paste

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Smartphone

Display

Intended use	Product name
Touch panel picture frame wiring material	•LS-920L etc.
Insulation protection Heat curing	●CR-18□ series ●FR-1T-NSD9
Insulation protection UV curing	●UVF-10T(KAI) ●UVF-30T
Temporary protective film for glass and ITO surfaces	• #503 series

Camera

Intended use	Product name
Camera module FPC	Photo resist ink
Marking ink	CR-18W seriesFCR-82CV-30
Plating process Temporary masking ink	MR-303 series

■ Bending part • Electromagnetic wave shield

Intended use	Product name
EMI shield · FPC wiring	•SW1100-1, SW2200C
Insulation protection	• CR-18C-KT1 etc.

Fingerprint authentication

Intended use	Product name
Fingerprint authentication Sensor part electrode	●LS-453 series
Insulation protection	Heat curing type insulation paste

Medical and Healthcare related

Thermo cutter	
Intended use	Product name
Disposable tube cutter	 Silver paste

Biosensor

Intended use	Product name
Correspond to stretchable substrates Electrodes	●LS-453-6A, LS-453-6B

Blood glucose sensor

Intended use	Product name
Sensor	Carbon pasteSilver paste
Insulation coating film	•UV curing type insulation paste

Others

Intended use	Product name
Pressure sensitive sensor	●LS-453-6A, LS-453-6B
Wiring	●Carbon paste

 Silver paste 	● Carbon paste	Masking ink	
 Insulation pa 	iste	Plating resist ink	



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