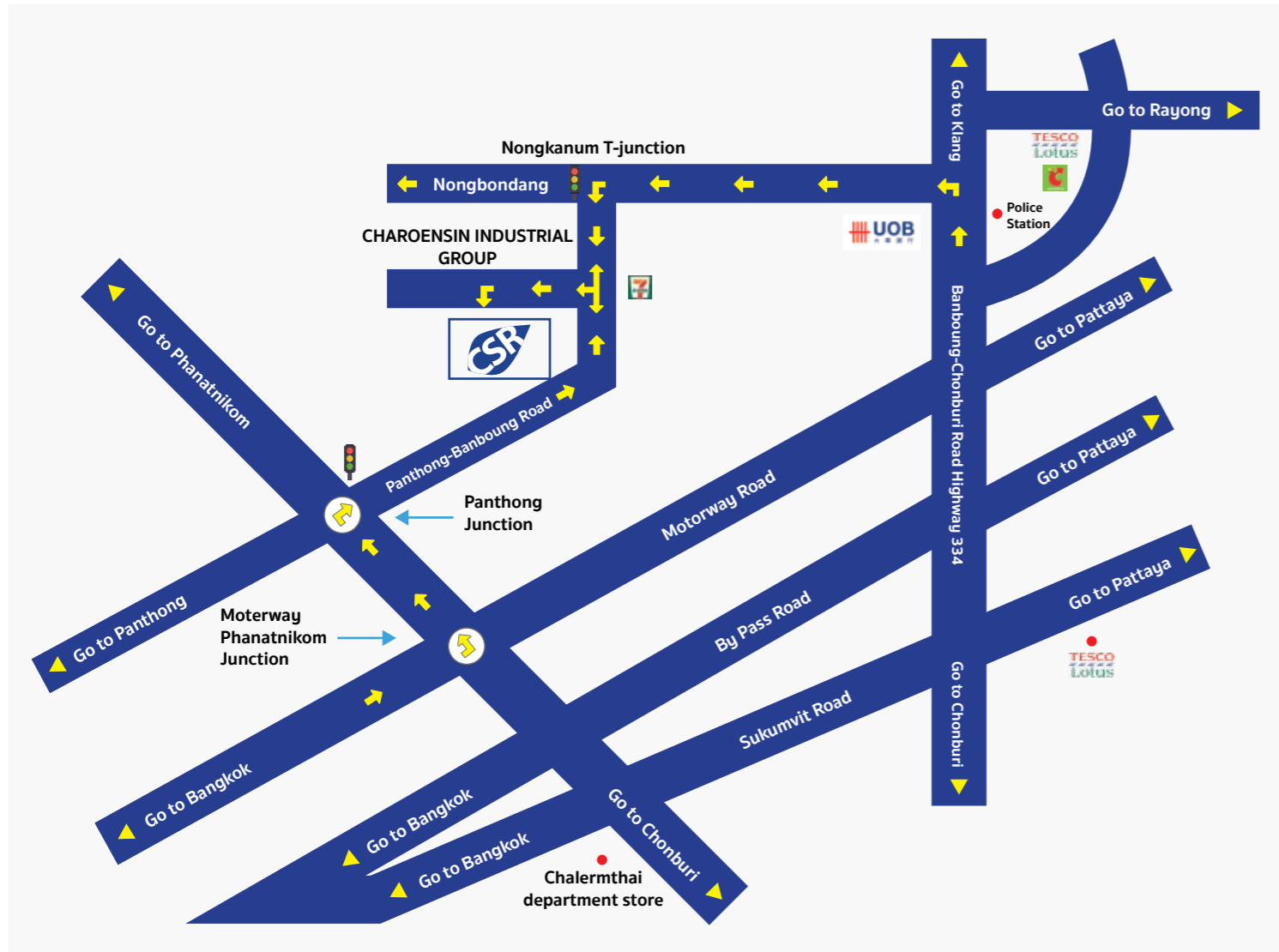




## Contact



## CS RUBBER INDUSTRY CO.,LTD.

### MANUFACTURER OF RUBBER COMPOUND PRODUCTS

One of the qualified & expert manufacturer of rubber compound in Thailand. Mixing technical and capacity provider.



### CS RUBBER INDUSTRY CO.,LTD.

199/20 Moo. 3 Panthong-Banbong Road, Tambol Banbong

Amphur Banbong, Chonburi, 20170, Thailand

Tel : +66(0)38 443-985-6 / +66(0)38 444-090

Fax : +66(0)38 445-753 / +66(0)38 443-989

Local Sales (TH)

Sawai Jitauksorn : sawairubber@hotmail.com

Local / International Sales (JP/EN)

Shigeru Fukuyama : shigeru.fukuyama@csrubber.co.th



[www.csrubber.co.th](http://www.csrubber.co.th)

# CS RUBBER INDUSTRY CO.,LTD.



## About Us

**CS RUBBER INDUSTRY CO.,LTD.** is one of the leading manufactures of rubber compound in Thailand. Our continuously improvement for quality and service allows us to bring up confidence and assurance to customers.

Quality and reliability are driving factors at CS Rubber. Our quality control process allows for a high standard of products which deliver traceable, consistent and reliable results. Thereby we at CS Rubber strive to provide the best possible products and experience for our customers.

## Company History

**1988 - 2004 :**  
Establishment of Mimi Industrial Co., Ltd. for the manufacture of outsole shoes and dog toy.


**2004 - Now :**  
Establishment of CS Rubber Industry Co., Ltd. for the manufacture rubber compound.

## Profile

<b>Company Name</b>	: CS RUBBER INDUSTRY CO.,LTD.
<b>Address</b>	: 199/20 Moo. 3 Panthong-Banboug Road, Tambol Banboug, Amphur Banboug, Chonburi, 20170, Thailand
<b>Registration</b>	: August 17, 2004
<b>Establish</b>	: September 1 2004
<b>Capital</b>	: 90,000,000 THB
<b>Representative</b>	: Vivat Wongcharoensin
<b>Employee</b>	: 300 persons
<b>Tel</b>	: +66(0)38 443-985-6 / +66(0)38 444-090 / +66(0)38 445-751-2 / +66(0)38 443-590
<b>Fax</b>	: +66(0)38 445-753 / +66(0)38 443-989 / +66(0)38 443-932
<b>Website</b>	: www.csrubber.co.th
<b>Email</b>	: Local Sales (TH) Sawai Jitauksorn : sawairubber@hotmail.com Local / International Sales (JP/EN) Shigeru Fukuyama : shigeru.fukuyama@csrubber.co.th



## Charoensin Group

Industrial	Consumer	Property
 Rubber compound*** <ul style="list-style-type: none"> <li>• Tannery</li> <li>• Technical Textiles</li> <li>• Chemicals</li> <li>• Plastic/PVC</li> <li>• Insulating Fabric</li> <li>• Synthetic Fiber</li> </ul>	<ul style="list-style-type: none"> <li>• Leather Footwear</li> <li>• Safety Footwear</li> <li>• Safety Equipment</li> <li>• Jewelry</li> <li>• Convenient Store</li> <li>• Dog Toys</li> </ul>	<ul style="list-style-type: none"> <li>• Apartment for Rent</li> <li>• Commercial Building</li> <li>• Warehouse</li> <li>• Land Development</li> </ul>

\*\*\*CS Rubber is under Charoensin Group

## Standards / Certificates



ISO 9001 : 2015



ISO 14001 : 2015

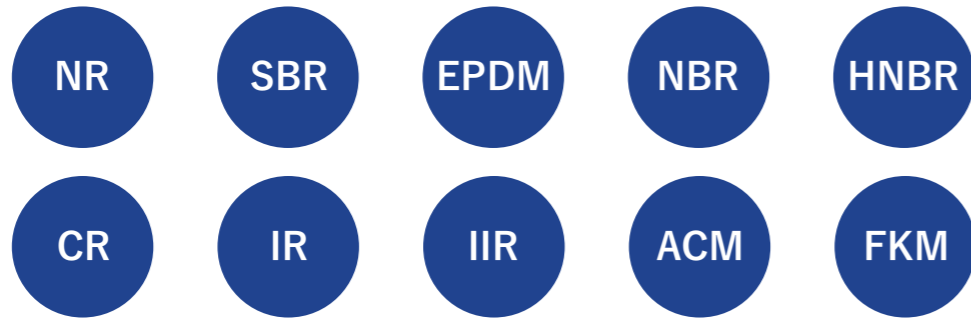


Environmental Management System  
From Department of Industrial Works  
Registration date : September 25, 2015



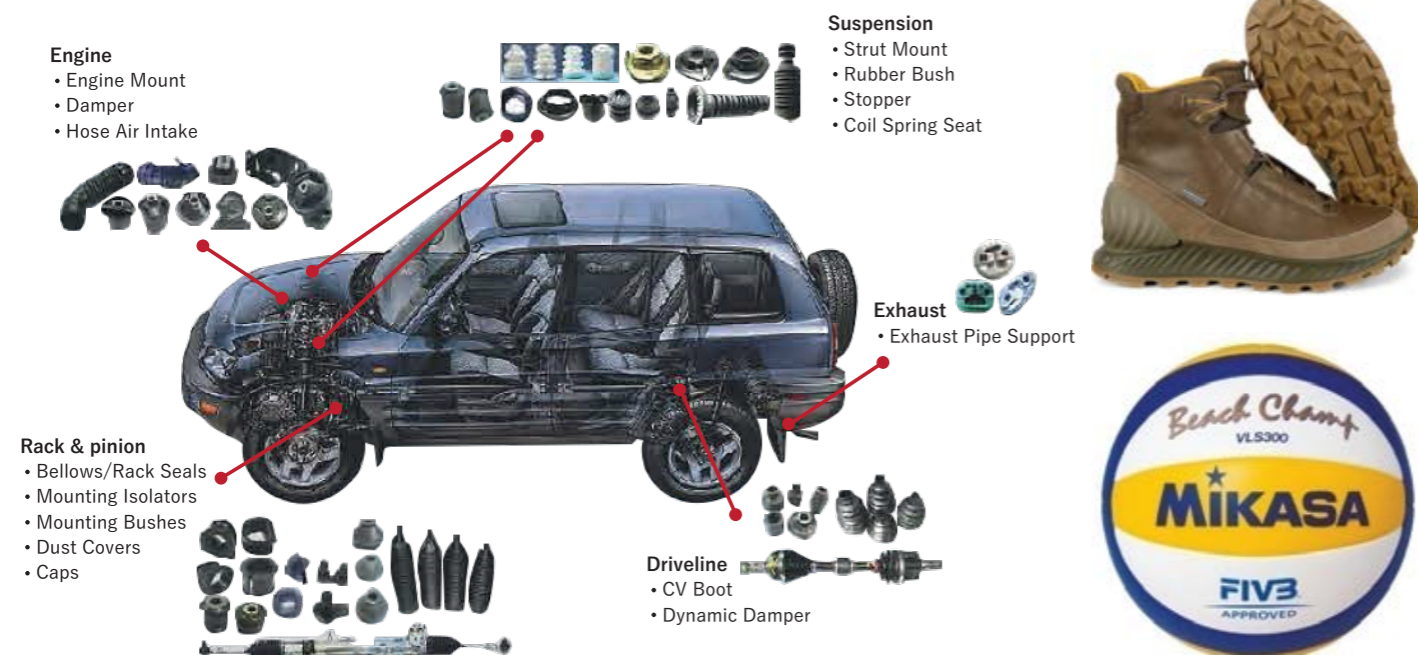
## Product Business

- Rubber compounds
- Black and colored masterbatch



## Product Application

- Automotive parts - Weather strip, grommet, hose, anti-vibration parts, other parts
- Home appliances
- Sport Applications
  - Footwear - Out sole and mid sole
  - Balls - Tennis, basket ball
- Construction – Bearing pad, high voltage insulation, Water-stop



## Production Capacity

Type	Line	Machine				Capacity (ton/month)
		Mixer		Sheeting		
		Name	Size	Name	Size	
A compound	Color Compound	1.Kneader	110 L	2-Roll Mill	22"x18"	200
		2.Kneader	110 L	2-Roll Mill	22"	200
	Black Compound	4.Banbury	100 L	2-Roll Mill	24"	300
		5.Banbury	100 L	2-Roll Mill	22"	300
		6.Banbury	100 L	2-Roll Mill	24"	300
		9.Kneader	110 L	2-Roll Mill	22"	200
Total					1,500	

Type	Line	Machine				Capacity (ton/month)
		Mixer		Sheeting		
		Name	Size	Name	Size	
B compound	Color Compound	3.Kneader	110 L	2-Roll Mill	22"x18"	200
	Black Compound	7.Kneader	110 L	2-Roll Mill	22"x18"	200
		8.Kneader	110 L	2-Roll Mill	22"x18"	200
Total					600	





## Research - Technology Center

### We design formulation to meet customer's specification

Our Research and Development department can provide you a special formulation for your specific requirements to meet DIN., JIS., and ASTM. Standards.

CS Rubber Industry co., Ltd. develop suitable recipes for all kinds of rubber product and also provide technical service for customer satisfaction.

#### RD Meeting



#### FTIR Testing



#### Properties Testing



## Service & Technical Support

Our services are flexible and can be adjust to match every customer requirement. We always will to adjust formula to fit with variable production process also can work with customer to improve process to get a better quality and the lower cost. We always realize about productivity and costing as the first priority.

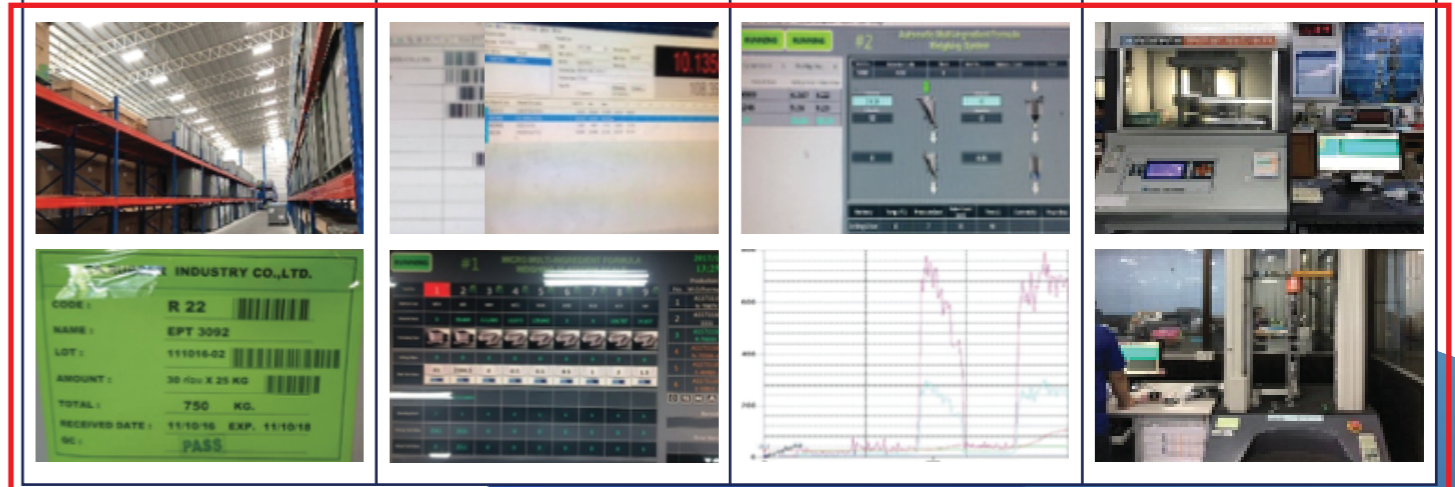
### The rubber compounds we produce can be :

- CS Rubber owns the recipes and also provides all materials
- CS Rubber owns the recipes but customer provides partial materials
- Customers own the recipes but CS Rubber provides all materials
- Customers own the recipes and also provide all materials

## Quality Assurance

**Quality Assurance :** With quality system, we can provide the customer with qualified rubber compounds and services and achieve customer satisfaction

Material	Material Preparation	Mixing	Compound Check
<b>Polymer -</b> First in First Out & Foreign matter  <b>Chemical -</b> First in First Out & and best quality	Control the weight of Material with bar code system.  Control the weight of material with green light (weight accuracy).	Check the weight of material.  Control time, temperature, ram pressure, rotor speed, water coolant temperature.	Specific gravity Mooney viscosity Dispersion Original properties Special properties  Photo low quality





# LAB TESTING SERVICE

We have wide range of testing machines to test international testing standard.

## LAB 1 : Environmental resistance testing

No.	Testing machine	Test item
1	Temperature & humidity chamber	Blooming
2	Ozone chamber	Ozone resistance

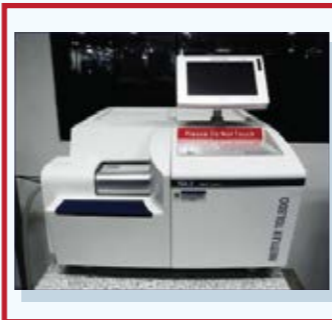
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## LAB 2 : Chemical analysis testing

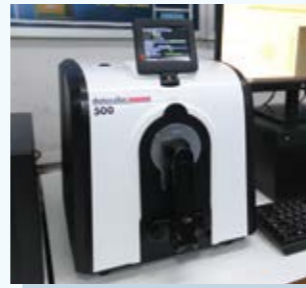
No.	Testing machine	Test item
1	FTIR (Fourier transform infrared spectroscopy)	Chemical functional group
2	TGA (Thermo gravimetric analysis)	Quantity of main component

Photo low quality



## LAB 3 : Color analysis testing

No.	Testing machine	Test item
1	Color Spectrophotometers	Color



## LAB 4 : Heat & aging testing

No.	Testing machine	Test item
1	Oven	Heat resistance
2	Oil Bath	Oil resistance
3	Compression set	% Compression set

Photo low quality



## LAB 5 : Physical & mechanical testing

No.	Testing machine	Test item
1	Specific gravity tester	Specific gravity (S.G.)
2	Durometer	Hardness (shore A)
3	Mooney viscometer	Mooney viscosity
4	Rheometer (MDR)	Cure curve <ul style="list-style-type: none"> <li>■ Cure time</li> <li>■ Scorch time</li> </ul>
5	Universal testing machine (Tensile testing machine)	<ul style="list-style-type: none"> <li>■ Tensile strength</li> <li>■ Modulus</li> <li>■ Elongation</li> <li>■ Tear strength</li> </ul>
6	4" Two roll mill / Dispersion grader	Dispersion
7	Ross flexing machine	Ross flex
8	Vertical rebound resilience tester	% Rebound resilience
9	Akron abrasion tester	Abrasion resistance (Akron)
10	DIN abrasion tester	Abrasion resistance (DIN)



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# Manufacturing process control

Computerized Control System (EPR) : We use the manufacturing process control system with ERP program that can control work internal link to quality control of rubber compound efficiently



1 Receiving Material	2 Raw Material Inspection	3 Raw Material Storage	4 Weighing	5 Mixing	6 Sheeting and sizing	7 Cooling	8 Metal detector appearance check	9 Strain process	10 Packing Process	11 Product Checking and Process Checking	12 Delivery to Customer
<ul style="list-style-type: none"> <li>•R/M Maker approved</li> <li>•Quality control</li> </ul>	<ul style="list-style-type: none"> <li>•Quality confirm check before receive</li> <li>•Sample keep and data record</li> </ul>	<ul style="list-style-type: none"> <li>•ERP program</li> <li>•Barcode system</li> <li>•FI/FO Control</li> <li>•Shelf life control</li> </ul>	<ul style="list-style-type: none"> <li>•Auto and Computer control</li> <li>•Barcode system</li> <li>•Fool prove System</li> <li>•High Precision weight</li> </ul>	<ul style="list-style-type: none"> <li>•Industrial program and computer control</li> <li>•With barcode system</li> </ul>	<ul style="list-style-type: none"> <li>•Size control as customer requirement</li> <li>•Standard of Operation method</li> </ul>	<ul style="list-style-type: none"> <li>•Temperature control</li> <li>•Dipping solution control</li> </ul>	<ul style="list-style-type: none"> <li>•High efficiently Auto metal detect</li> <li>•Contaminate check</li> </ul>	<ul style="list-style-type: none"> <li>•Confirm no contaminate</li> <li>•Excellent dispersion</li> <li>•Mesh size control</li> </ul>	<ul style="list-style-type: none"> <li>•Package and weight suitable for customer process</li> <li>•Every weight unit able for traceability</li> </ul>	<ul style="list-style-type: none"> <li>•100% Check before release compound to customer</li> <li>•International standard compliant</li> </ul>	<ul style="list-style-type: none"> <li>•ERP Program Confirm</li> <li>•FIFO and Expire date control</li> <li>•With COA</li> </ul>

## Advanced rubber mixing with accuracy of automatic system.

### Automatic Chemical Weighing System



### Auto Feeding System







Production Line ▶ BLACK COMPOUND



Production Line ▶ COLOR COMPOUND



Metal detector



Open roll



Strainer



Open roll



Batch off machine

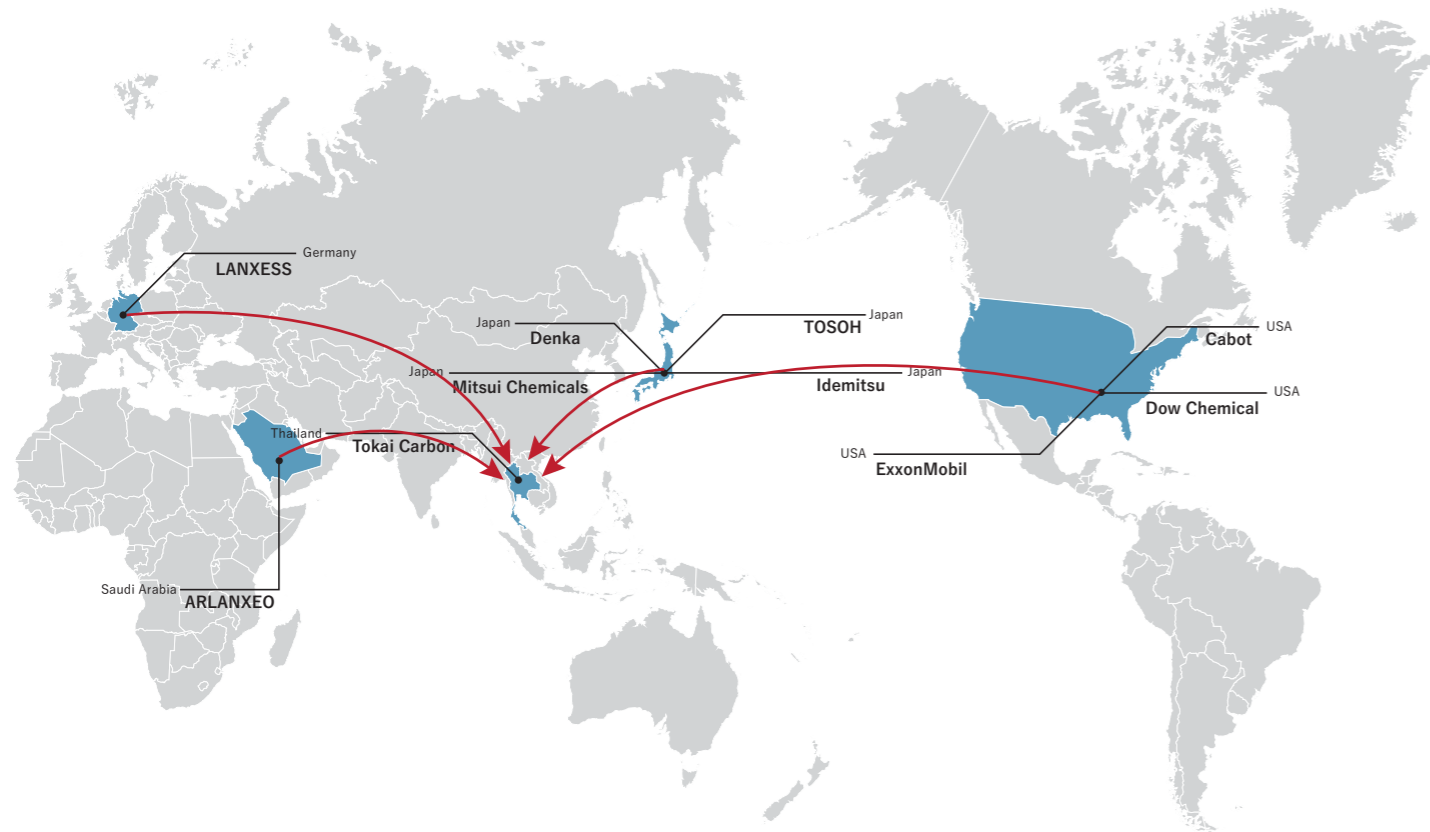


Appearance Inspection



# Global network

We buy materials from all over the world.



We deliver our products to every countries.



## Material supplier



## Customer destination



Portugal



Vietnam



Indonesia



Slovakia



Laos



Thailand



Korea



Myanmar



China



Malaysia