

China Steel Chemical Corp.

April, 2015



Table of Content

- 1.The Brief Introduction to CSCC
- 2.The Introduction of Coal Chemical Industries
- 3.The Industrial Use for CSCC
- 4.The New Products Development



1、 The Brief Introduction to CSCC

Chronology of Major Events

- 1.CSCC established in February 1989.
- 2.Plants completed during 1991~1993.
- 3.CSCC IPO listed in Taiwan in November, 1998
- 4.CSCC was awarded “Industrial Excellence Award “ and “National Outstanding SMES Award” in 2000 and 2001.
- 5.CSCC achieved OHSAS 18001 certification during 2001~2008.
- 6.CSCC achieved CNLA in April, 2002. And granted authentication in April 2005 and November, 2008.
- 7.Refined Naphthalene Unit expansion completed in April 2009.
8. The capacity 1,400 MT/YR of Green Mesophase Powder Plant completed in January 2010.
- 9.The Light Oil Distillation plant phase 2 completed in April 2010.
- 10.The line G5/G6 of Green Mesophase Powder Plant reaching capacity to 2,600 MT/YR completed during the third quarter 2011.
- 11.The line G1N/G2N of Green Mesophase Powder Plant reaching capacity to 5,000 MT/YR completed by the end of 2012.



1、 The Brief Introduction to CSCC

The structure of shareholder

unit : per thousand stocks

Major shareholder	Shares	Percentage
China Steel Corporation	68,787	29.04 %
China Synthetic Rubber Corp	11,759	4.96 %
CTCI Corporation	2,426	1.02 %

As of: March, 2015

1. The Brief Introduction to CSCC

✚ Table of academic degree in CSCC's employees

Academic Degree	Number	Percentage
Doctor Degree	6	3%
Master Degree	50	27%
Bachelor Degree	93	49%
Junior college and Senior high school	39	21%
Total	188	100%

As of : Dec 31, 2014



The Brief Introduction to CSCC

unit : metric tons

Period Input	2011	2012	2013	2014	2015/1~3
Coal Tar	213,284	203,920	264,578	266,814	69,809
Light Oil	80,921	77,971	93,609	100,930	27,020



1、 The Brief Introduction to CSCC

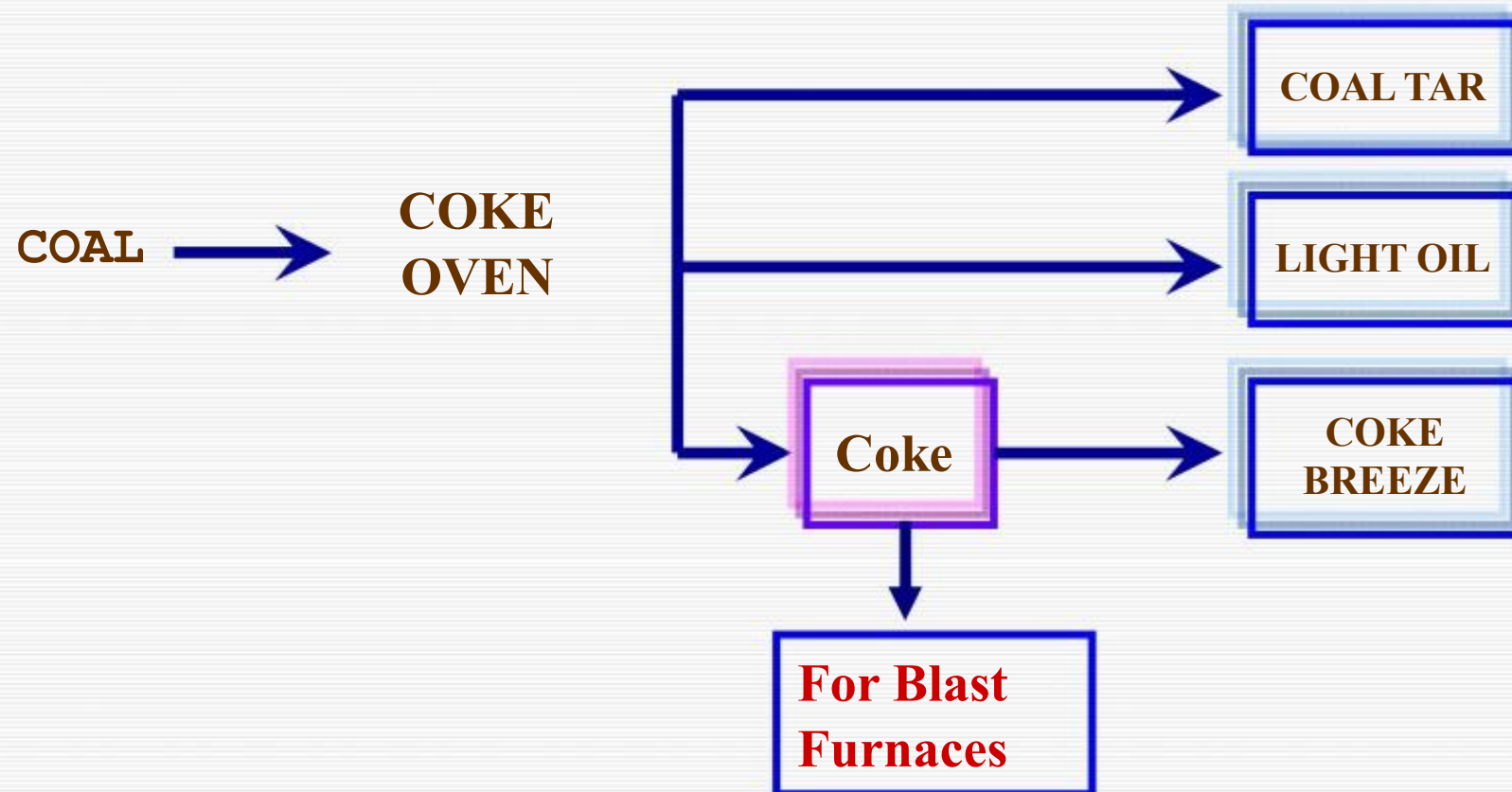
Unit: NT\$ millions

	2011	2012	2013	2014	2015 1~3
Revenue	8,915	8,257	8,820	8,904	1,587*
Net income after tax	2,247	1,974	2,221	2,189	449*
EPS(NT\$)	9.76	8.58	9.60	9.50	-

* The announcement is based on Net income before tax.

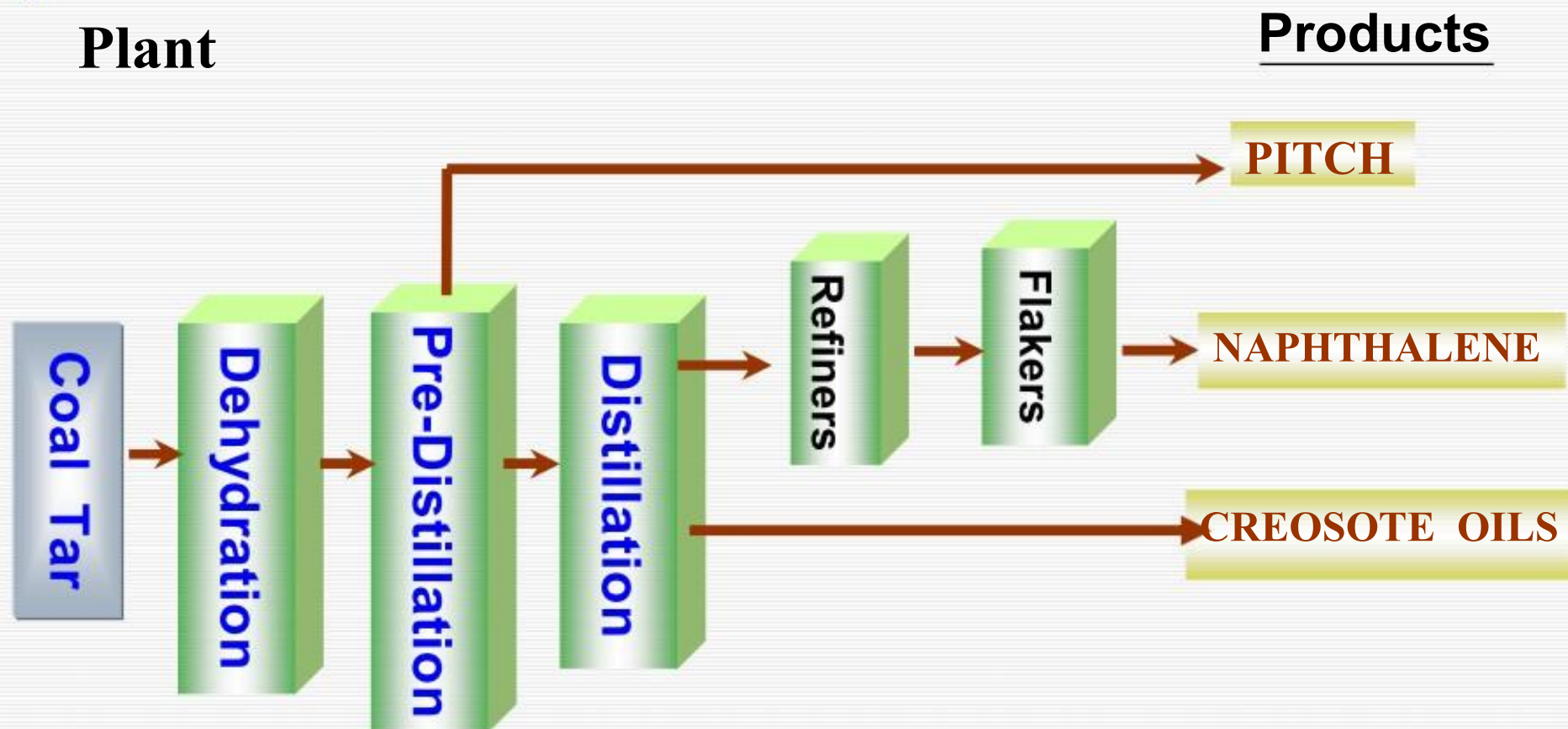


2. The Relating Product Map of Coal Chemical Industries



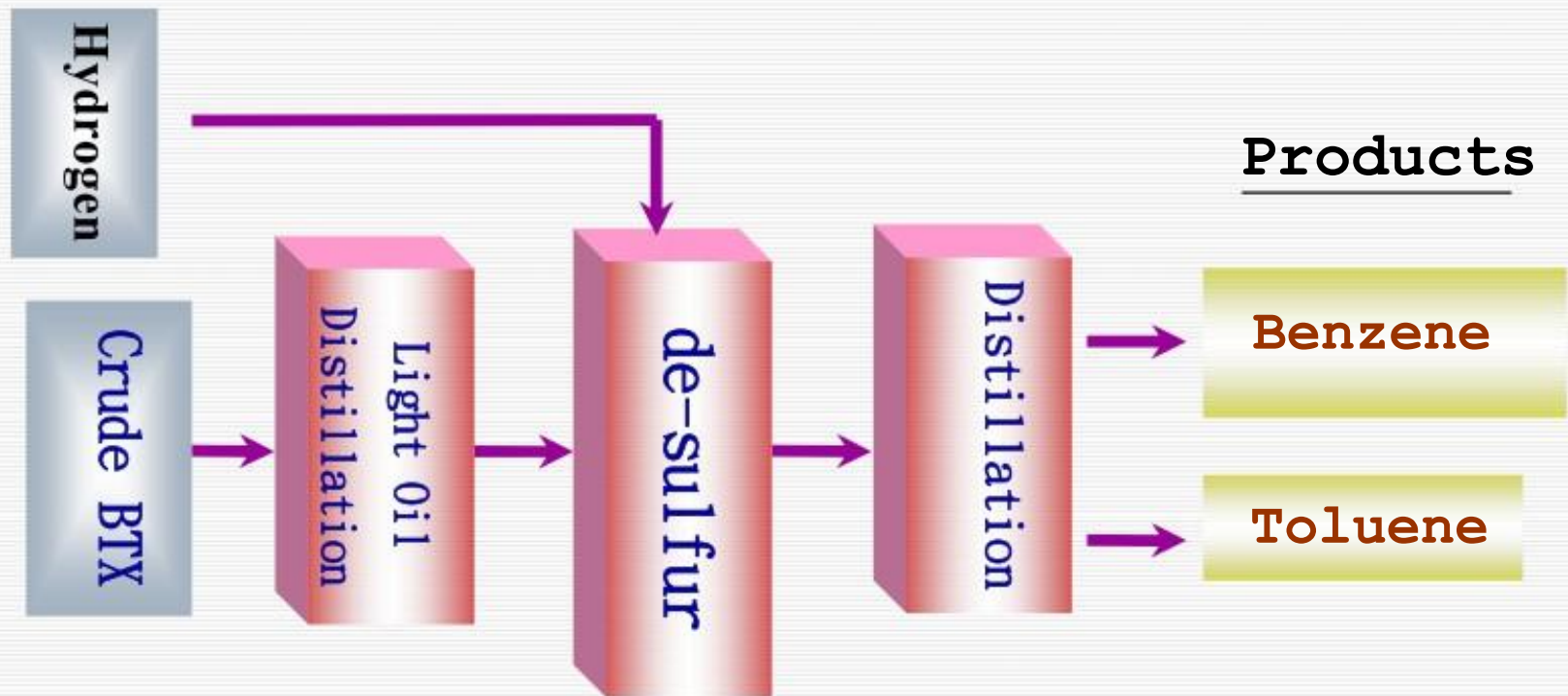
2. The Relating Product Map of Coal Chemical Industries

The Process of the Coal Tar Distillation Plant



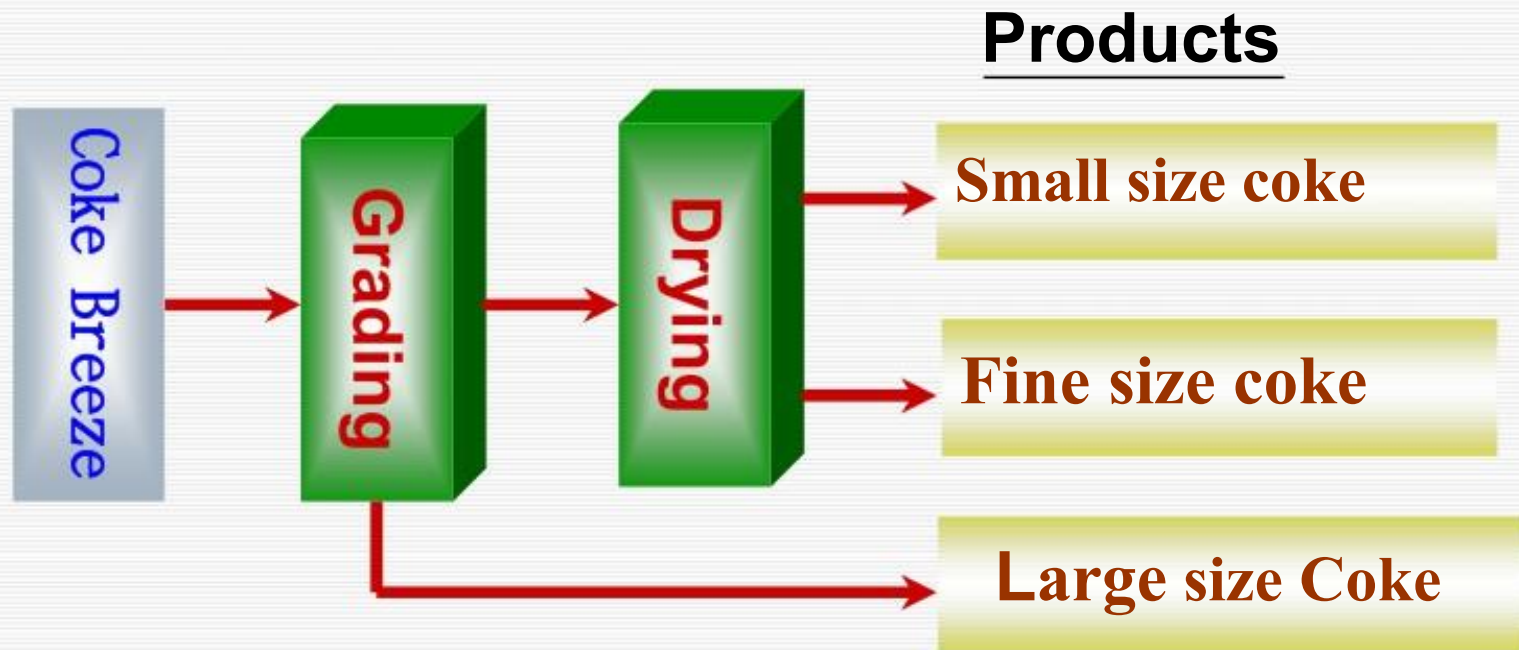
2. The Relating Product Map of Coal Chemical Industries

The Process of the Light Oil Distillation Plant



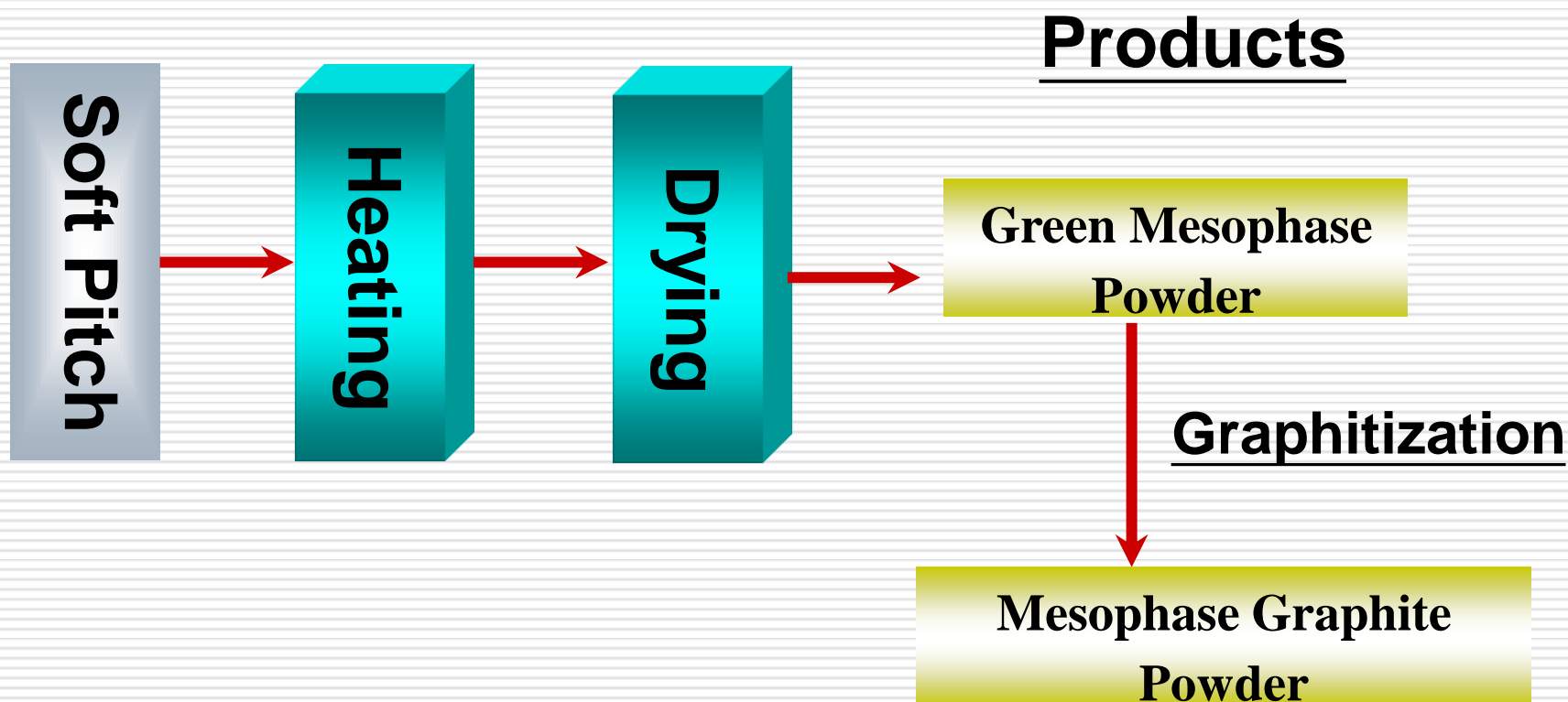
2. The Relating Product Map of Coal Chemical Industries

The Process of the Coke Breeze Plant



2. The Relating Product Map of Coal Chemical Industries

✚ The Process of the Green Mesophase Powder plant



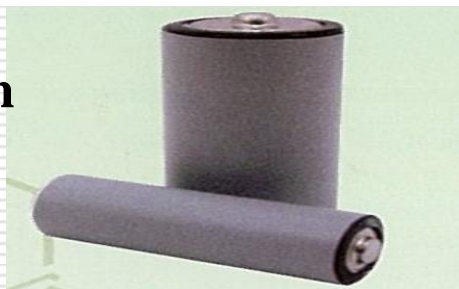
The Industrial Use for CSCC



The Appliance of Soft Pitch

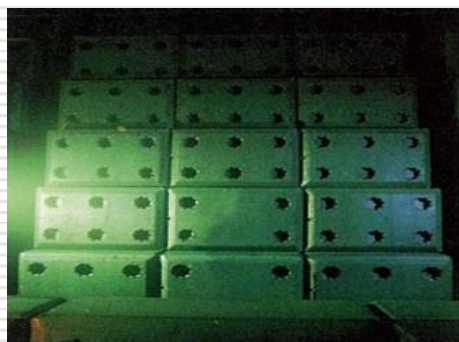
Soft Pitch

Primary
electrode rod

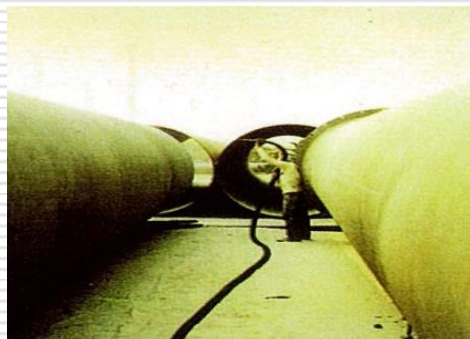


Hard Pitch

Electrode binder



Water and rust
proofing materials



Roofing Pitch



Special
pitch



Mesophase Pitch
Powder



The Appliance of Naphthalene

Naphthalene

Sulfonated naphthalene formaldehyde condensates

B-naphthol, Tobias acid, J-acid

Mothballs

Phthalic anhydride (PA)

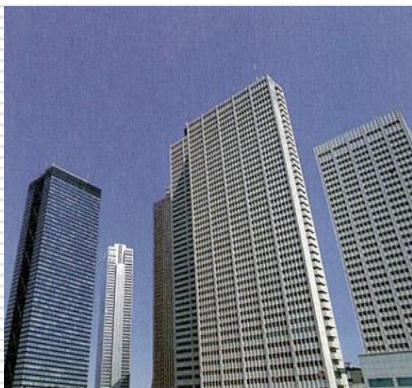
PEN resin

BON-6

Water-reducing admixture

Dyestuffs pigment

Plasticizer



The Appliance of Creosote oils

Creosote oils

Carbon black



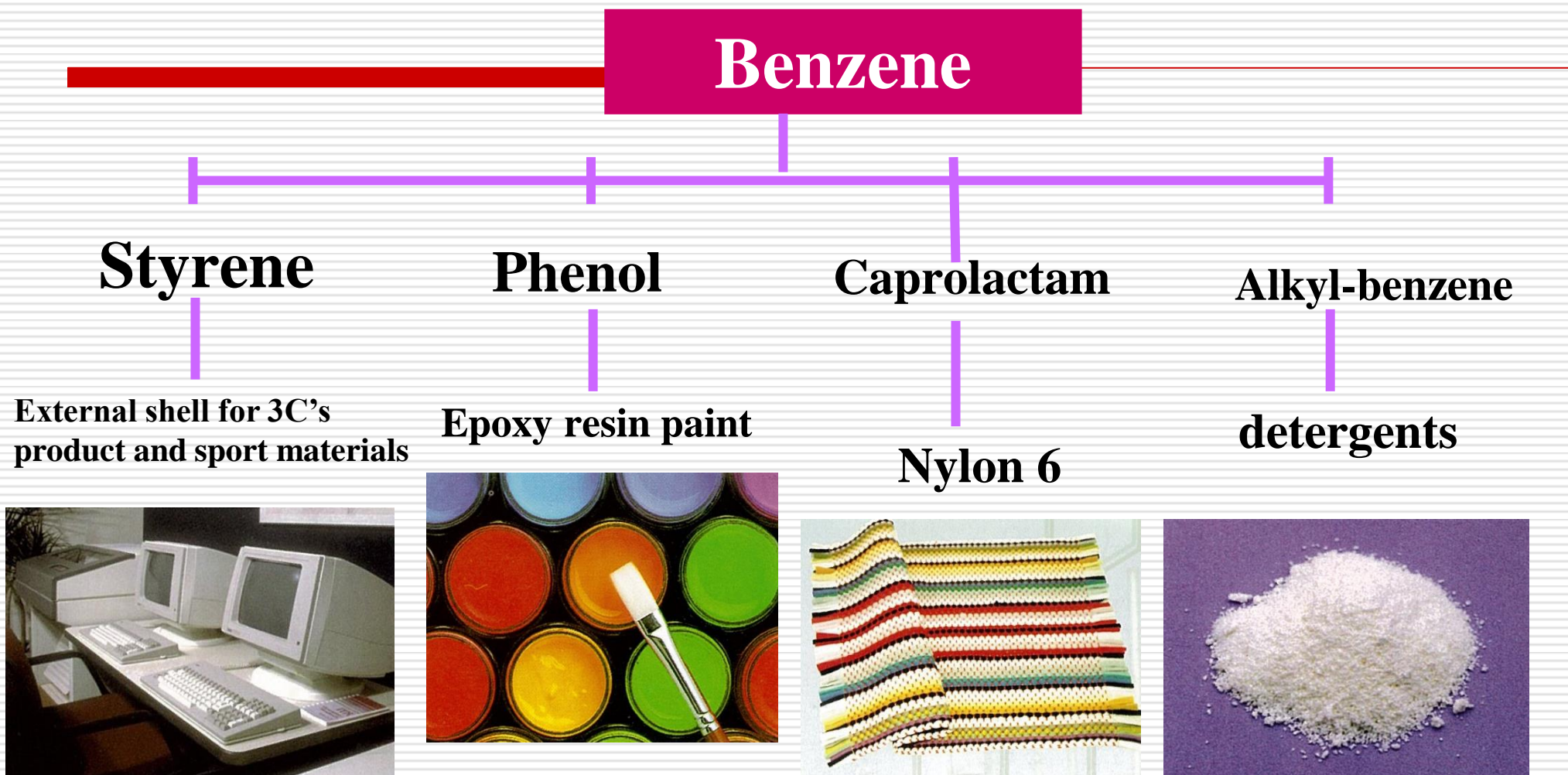
Wood preservative oil



Wash oil



The Appliance of Benzene



4. New Products Development

- ✚ High Soft Point Pitch (HSP):utilized as wrapping materials to cover carbon for Li-ion Batteries anode or as binder material for fireproofing material.
- ✚ High Soft Point Pitch is a special pitch which possesses a soft point higher than 260°C and have high fixed carbon ratio (ca. 80-85%). It is also utilized as carbon fiber precursor, because the production procedure of HSP is similar to the one of carbon fiber procedure.
- ✚ Nowadays, the pre-launch sample is provided to customers for testing as wrapping material for Li-ion batteries anode and fireproofing material. Mass production process design had been completed and evaluation of mass product line will be made after market expands.



4. New Products Development

- ✦ The quality of AC is great as Japan leading brand. The AC has already been sold worldwide.
- ✦ Due to the expansion of Li-ion batteries anode material, establishing graphitizing factory is planning. Studying abroad techniques of graphitization, evaluation of inductive graphitizing furnace and mass production plan are progressing.



Thank You

