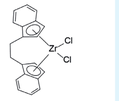
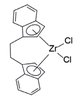
Key Products

Product name **PC-1014**



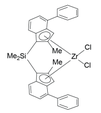
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Product name **PC-1017**



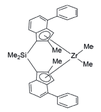
CAS No: 100163-29-9

Product name **PC-1015**



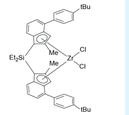
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Product name **PC-1015M**



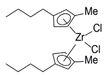
CAS No: 197641-03-5

Product name **PC-1033**



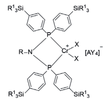
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Product name **PC-1401**



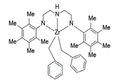
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Product name **Cr Cat.**



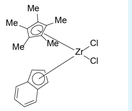
PCT/KR2019/00678

Product name **PC-1402**



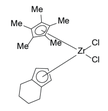
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Product name **PC-1404**



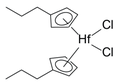
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Product name **PC-1404H**



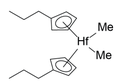
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Product name **PC-1316**



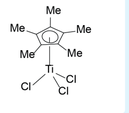
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Product name **PC-1314**



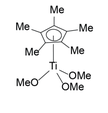
CAS No: 255885-01-9

Product name **PIP-101**



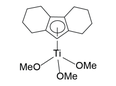
CAS No: 12129-06-5

Product name **PI-1011**



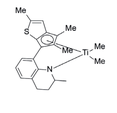
CAS No: 1123927-75-3

Product name **PC-1101**



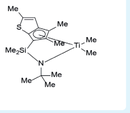
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Product name **PC-1070**



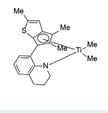
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Product name **PC-1071**



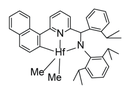
CAS No: 2892254-03-2

Product name **PC-1072**



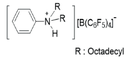
CAS No: 2892254-04-3

Product name **PC-1073**



CAS No: 521964-95-4

Product name **PB-401**



R : Octadecyl

CAS No: 462629-01-2

SPCI
Precious Catalysts Inc.

ADDRESS. Head Office 249, Duryu-gil, Angang-eup, Gyeongju-si, Gyeongsangbuk-do, Republic of Korea

Plant 201, Duryu-gil, Angang-eup, Gyeongju-si, Gyeongsangbuk-do, Republic of Korea

TEL. Head Office 054-705-6207

Plant 054-624-0207

WEBSITE www.s-pci.com

QR Code.

SPCI
Precious Catalysts Inc.

Unrelenting Challenges Innovation

Special Precious Catalysts Inc.

Creating Special and Precious Catalysts



Growing into a Specialized Advanced Chemical Materials Company

Through Continuous Innovation and New Challenges

Since its establishment in 2009, SPCI has played a pioneering role in the development of metallocene catalysts in Korea. As we entered a new field, we faced challenges and accumulated expertise through trial and error. Through continuous challenges and innovation, we have earned the trust of customers in Korea and around the world for our technology and quality.

In response to changing market needs, we are expanding our capabilities beyond metallocene catalysts into electronic materials and specialty chemicals, particularly materials for electronic components, rubber and elastomer materials, and organometallic and alkali metal materials, drawing on the R&D capabilities and synthesis expertise we have built in the metallocene catalyst field.

We are also expanding our role as an ODM partner by improving and optimizing products to meet our customers' processes and helping them realize mass production, while accelerating our efforts to secure future growth drivers. We are creating value through differentiated technologies and products and fulfilling our social responsibility through compliance, shared growth, and ESG management.

We manage quality and environmental standards in accordance with international standards and will ensure the safe and stable supply of even difficult-to-handle materials. SPCI is committed to contributing to the global competitiveness of related industries in Korea by reliably supplying core materials for advanced industries, including petrochemicals, electronics, and semiconductors. We also aim to grow into a strong, specialized company and a key partner in the global market.

SPCI Precious Catalysts Inc.



Date of Establishment	April 20, 2009
CEO	Cheol Lee
No. of Employees	55 (9 in R&D, 5 PhD holders)

- **Intellectual Property** 5 registered patents, 7 patent applications, and 2 registered trademarks
- **Key Business Areas** Development and mass production of metallocene catalysts and advanced fine chemical materials
- **Key Certifications** ISO 9001[e1.1], ISO 14001, Inno-Biz, Certified Materials, Parts and Equipment Specialized Company, Venture Company, Corporate Research Institute, and licenses for Class 3, 4, and 5 hazardous materials
- **Customers** LG Chem, SK Innovation, DL Chemical, Lotte Chemical, Hanwha TotalEnergies, Total (Belgium), and PTTGC (Thailand)

Corporate History and Technology Development

- **2009** Established SPCI
- **2012** Completed Plant 1 and began mass production of Korea's first general-purpose metallocene catalysts.
- **2019** Developed production technology and secured a patent for Cr catalysts for 1-Octene.
- **2020** Localized the production of Ti precursors for semiconductors.
- **2021** Completed Plant 2 and R&D Center (KRW 25 billion).
- **2023** Signed an MOU with Gyeongju City and secured sites for Campuses 3 and 4.
- **2024** Certified as a Specialized Materials, Parts, and Equipment Company.
- **2025** Received the USD 1 Million Export Tower Award.
- **2026** Selected by the government as one of the 100 "Jump-up" Companies.
- **2027** Plant 3 scheduled for completion in October.







Facilities

Pilot Facilities

Reactors	50L G/L reactor : 2EA 30L G/L reactor : 1EA
Purification Facilities	50L Purifier(SUS) : 1EA 30L F/D(SUS) : 1EA

Plant 1

Reactors (-25~250°C)	3,000L (G/L) : 1EA 2,000L (G/L, SUS) : 2EA 1,000L (G/L, SUS) : 2EA
Purification Facilities	3,000L Purifier(SUS) : 1EA 1,000L F/D(SUS) : 1EA

Plant 2

Reactors (-25~250°C)	5,000L (G/L, SUS) : 2EA 3,000L (G/L, SUS) : 6EA 1,500L (SUS, High-pressure hydrogen reactor) : 2EA
Purification Facilities	3,000L Purifier(SUS) : 2EA 1,500L F/D(SUS) : 2EA

Plant 3

Reactors (-25~250°C)	10,000L (G/L, SUS) : 2EA 5,000L (SUS) : 2EA 3,000L (G/L) : 1EA 2,000L (SUS) : 1EA	500L (G/L) : 1EA 100L (SUS) : 1EA 50L (SUS) : 1EA
Purification Facilities	9,000L F/D(SUS) : 1EA 3,000L F/D(SUS) : 1EA	

Analytical Equipment

HPLC / High Performance Liquid Chromatography	GC / GC-MS / (Gas Chromatography-Mass Spectrometer)	Melting point system
ICP-OES / ICP-MS (Inductively Coupled Plasma-Mass Spectrometer)	NMR / Nuclear Magnetic Resonance 300MHz, 400MHz / (Nuclear Magnetic Resonance Spectroscopy)	Titrator
Gel Permeation Chromatography	IC / Ion Chromatography	TGA / Thermogravimetric Analysis
Viscosity Meter	LOD / Loss on Drying Analyzer	pH / Conductivity Meter









Business Areas

METALLOCENE CATALYSTS

- **Key raw materials for high-performance polyolefins**
  - In-house development and commercial production of metallocene precursors
  - One-stop supply from precursors to finished catalysts
  - Quality control based on an anhydrous process that prevents moisture and oxygen exposure
  - Securing global market share through increased exports

SPECIALTY CHEMICALS

- **Solutions for the stable mass production of complex specialty chemical materials**
  - Catalysts and materials for specialty rubber applications (NdBR·HNBR)
  - In-house production of Grignard reagents and expertise in handling alkali metals
  - Mass production of water-reactive and pyrophoric materials based on licenses for Class 3, 4, and 5 hazardous materials
  - Contract manufacturing of fine chemicals and bio-intermediates

ELECTRONIC MATERIALS

- **Synthesis of ultra-high purity electronic materials at the ppb level**
  - Mass production technology for dielectric and precursor materials for MLCCs
  - Synthesis technology for high-k and low-k precursor materials for semiconductors
  - 15 types of analytical equipment available in-house for high purity and trace impurity control
  - Scale-up capabilities from small-batch trial production to commercial production
  - ODM development and production tailored to customer specifications

PRODUCTS · GENERAL CHEMICALS

- **Customized organic and inorganic synthesis and process development**
  - Contract manufacturing (OEM) of organic compounds tailored to customer needs, regardless of application
  - 26 reactors with a total capacity of 76,450 L
  - Step-by-step scale-up (ODM) from laboratory synthesis and pilot validation to commercial production
  - One-stop solutions ranging from challenging reactions, including anhydrous and high-pressure processes, to precision analysis and quality verification

Core Technologies

□ Synthesis of ultra-high purity organometallic precursors at the ppb level

17 years of organometallic materials handling expertise



Licenses acquired for handling alkyllithium/alkylso dium and Class 3, 4, and 5 hazardous materials

Inert environment control technology using Ar and N_2



Capability for reaction, filtration, drying, and packaging under inert gas conditions

Product and solvent purification technology



Oxygen and moisture levels below 1 ppm

Advanced analytical equipment infrastructure established



Reliable and rapid data sharing