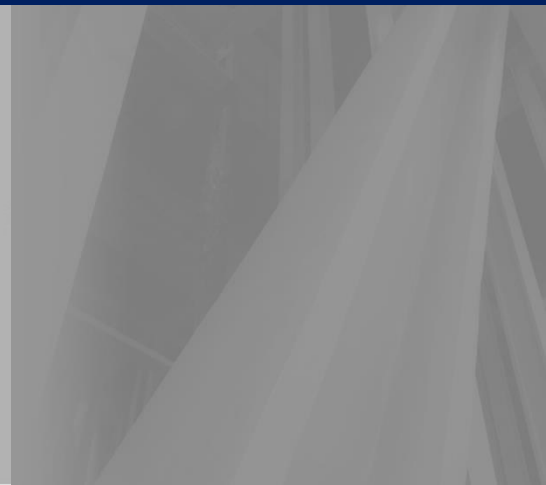




www.kdone.net

The Solution Provider for Insulation & Fireproofing

KD ONE





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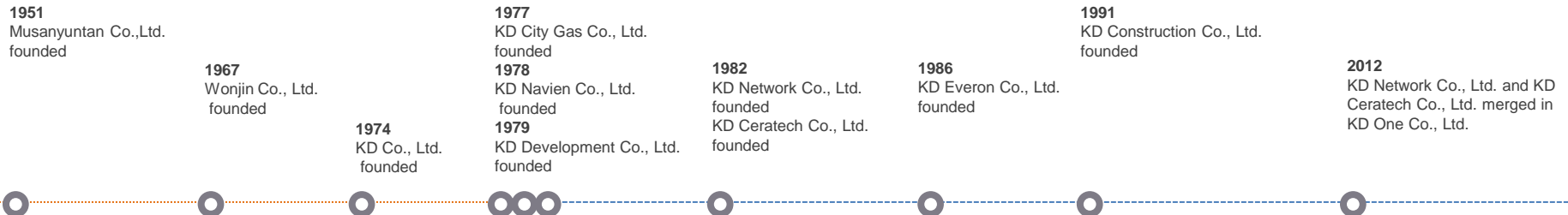
I . KD group

1. General information

- **Musanyuntan Co., Ltd.** Founded in 1951
- Founder: **Son Do-ik**
- Facilities: 42 facilities within 8 countries
- Employees approximately **2,688** people
- Affiliated Companies

Company	Business Area	Employees	Homepage
KD One	A holding company of KD group, and manufacturing fireproofing and insulation materials and developing home network system	456	
KD Navien	Developing and manufacturing boilers, water heaters, air conditioners and heat recovery ventilators	735	
KD Everon	Developing and manufacturing core components of boilers	60	
KD City Gas	Supplying and controlling city gas in the whole Ulsan and Yangsan City in Korea	289	
KD Construction	Engineering company focusing on national infrastructure industry and national convenience facility constructions	168	
KD E&S	Installing gas pipes and equipment of plants and providing logistics services	78	
KyungDong	Research and develop Eco-Coal Energy, Biomass and other resources	902	
		Total : 2,688	

•History of KD group



2. Philosophy & Vision

Philosophy **“Contribution to society through corporate activities”**

This motto has been passed down as one of our practical value from inception and is a key to our success. In this spirit, we have made sustained efforts to promote leading edge eco-friendly technologies and create a better and greener environment for future generations. Going forward, we will be a responsible and responsive global corporation that contributes to the betterment of our world.



Vision **“A Worldwide 1st Class E² Solution Company** in creating the most comfortable living environment”

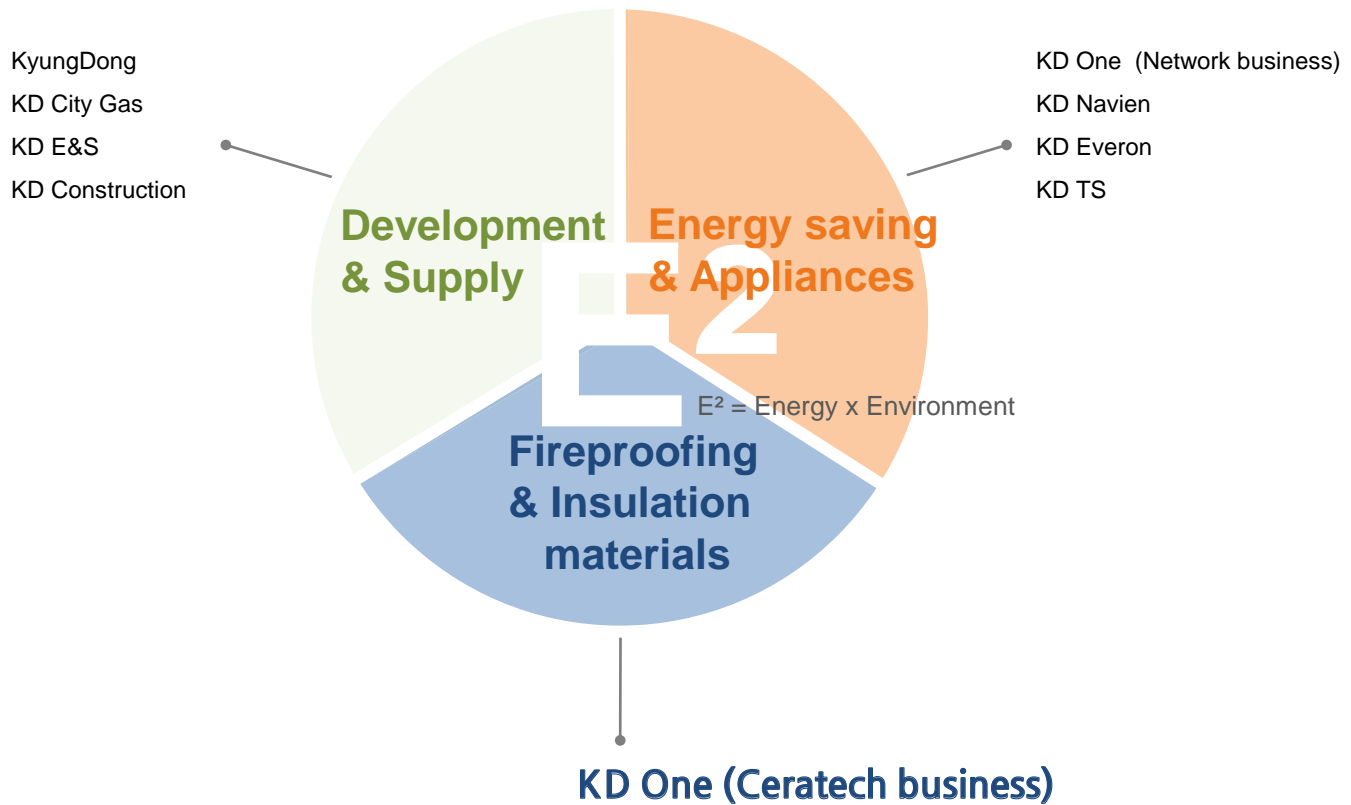
The vision of KD One contains the future and ambition of the four affiliated companies of KD Group. The four sister companies related to the field of living environment strive to become the global leader for their own fields through continuous development of technology and creative thinking, as well as to operate their businesses under a goal which is for creating a more comfortable living environment for customers.



I . KD group

✓ The roll of KD group in Energy and Environment

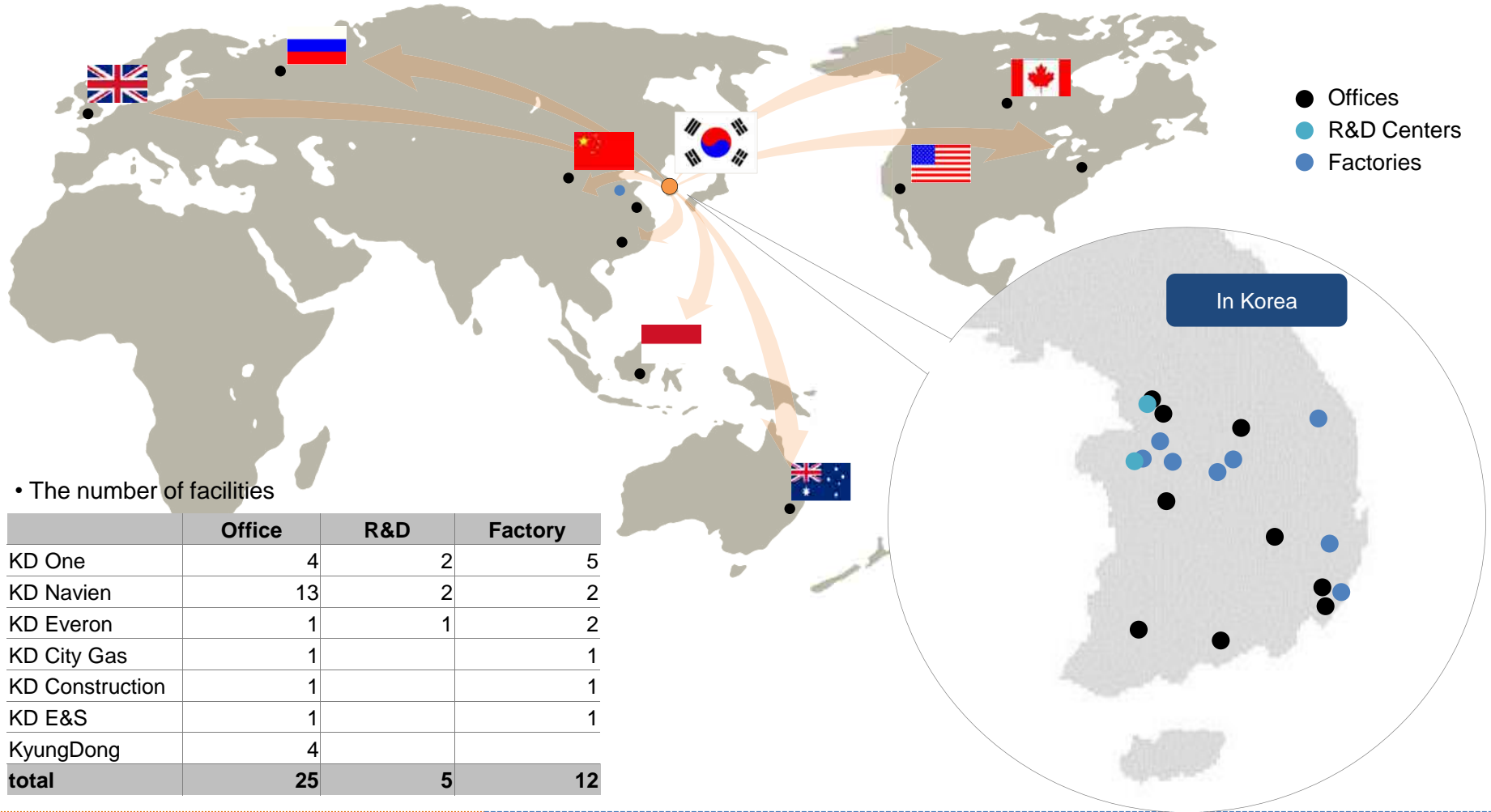
KD takes responsibilities from **energy development and supply** to environment preservation via **energy saving appliances** as well as completing the comfortable living environment with **fireproofing and insulation materials**.



I . KD group

3. Global KD Group

With KD Group located throughout the world, our technical field specialists are able to provide fast, dependable service whenever and wherever you need it most.



I . KD group

4. Financial statement (Y2014)

(Unit : Thousand, USD)

	Annual Sales	Asset	Capital
KD One	171,002	174,866	64,468
KD Navien	382,392	331,089	167,984
KD Everon	97,167	55,974	27,163
KD City Gas	2,399,450	1,101,071	560,802
KD Construction	98,948	63,731	5,161
KD E&S	37,542	69,922	28,299
KyungDong	125,240	140,383	76,468
Total	3,311,741	1,937,036	930,345

*KD Ceratech and KD Network has merged into KD One on July, 2012.

5. KD One Co., Ltd. Introduction

KD One was founded in 2010 as a holding company that takes charge of investment activity and brand management and on June 30, 2012, **KD Ceratech**, manufacturer of eco friendly composite material and **KD Network**, expert on home network system ware merged into KD One.

By the merger, KD One would expand its business, increase the efficiency of management system and amplify the synergy, and become a world leading company.

Ceratech business



Ceratech business has developed and **lead perlite industry with the world's best technology** and strived to restore the environment using eco-friendly artificial soil system.

Furthermore, Ceratech business has participated in saving energy with **insulation materials and cryogenic engineering**, and created comfortable life style with **fire proofing and sound absorbing materials, and roofing materials.**

Insulation materials

Fireproofing materials

Other Eco-friendly materials

Network business



Network business group is a **home network specialty company** that seeks to create a more secure and convenient living environment by **manufacturing home network, home automation system, boiler controller and integrated household appliances control system.**

Especially, the brand new home network system 'Navien', the new generation of advanced digital technology, provides safe, convenience and better quality life to each and every household.

Heating control system

Home Network

II . KD One Ceratech

1. General information

Since establishment, KD One Ceratech has taken the lead in Korea's **fireproofing and insulation industry** with the outstanding technology through constant investment into R&D by founding its technology research institute.

We have contributed to energy saving, safety of residential environment and the development of national industry through **the fireproofing and insulation technology for a variety of buildings, plants and LNG carriers.**

In addition, we have focused on the prevention of global warming and the restoration of the devastated urban environment through **environment friendly artificial soil and the greening roofs system.**



II . KD One Ceratech

2. History of KD One Ceratech



1980s

- 1981 · **Samson trade Corp. launched**
- 1982 · Samson trade Co., Ltd. founded
- 1983 · Acquired 'Prospective medium & small enterprise certificate'
- 1985 · First in Korea to receive KS certificate for water repellent perlite insulation
- 1987 · Completed Gyeongju's 2nd Plant
- 1989 · **Became the only Korean member of PERLITE INSTITUTE INC.**



1990s

- 1991 · **Second in the world to develop cryogenic insulation for LNG carrier**
· **First in Korea to supply artificial soil green roof system**
- 1995 · Completed Tenjin branch in China
· Acquired approval of ministry of science and technology for R&D institute
- 1998 · Completed Asan Plant
· Acquired superior technology company certificate



2000s

- 2000 · Founded non-profit organization 'Nulpurun foundation'
· **Awarded Seoul Metropolitan City's Environment Technology Prize**
- 2002 · **Awarded Ministry of Construction & Transportation Prize**
- 2003 · Changed company name to KD Ceratech Co., Ltd.
- 2004 · Completed Kunshan Plant in China
- 2006 · **Obtained ISO 9001 certificate**
· Asan Plant recognized as greenhouse gas emission reduction facility
- 2008 · **Awarded Energy Winner Prize in Green Building Sector**

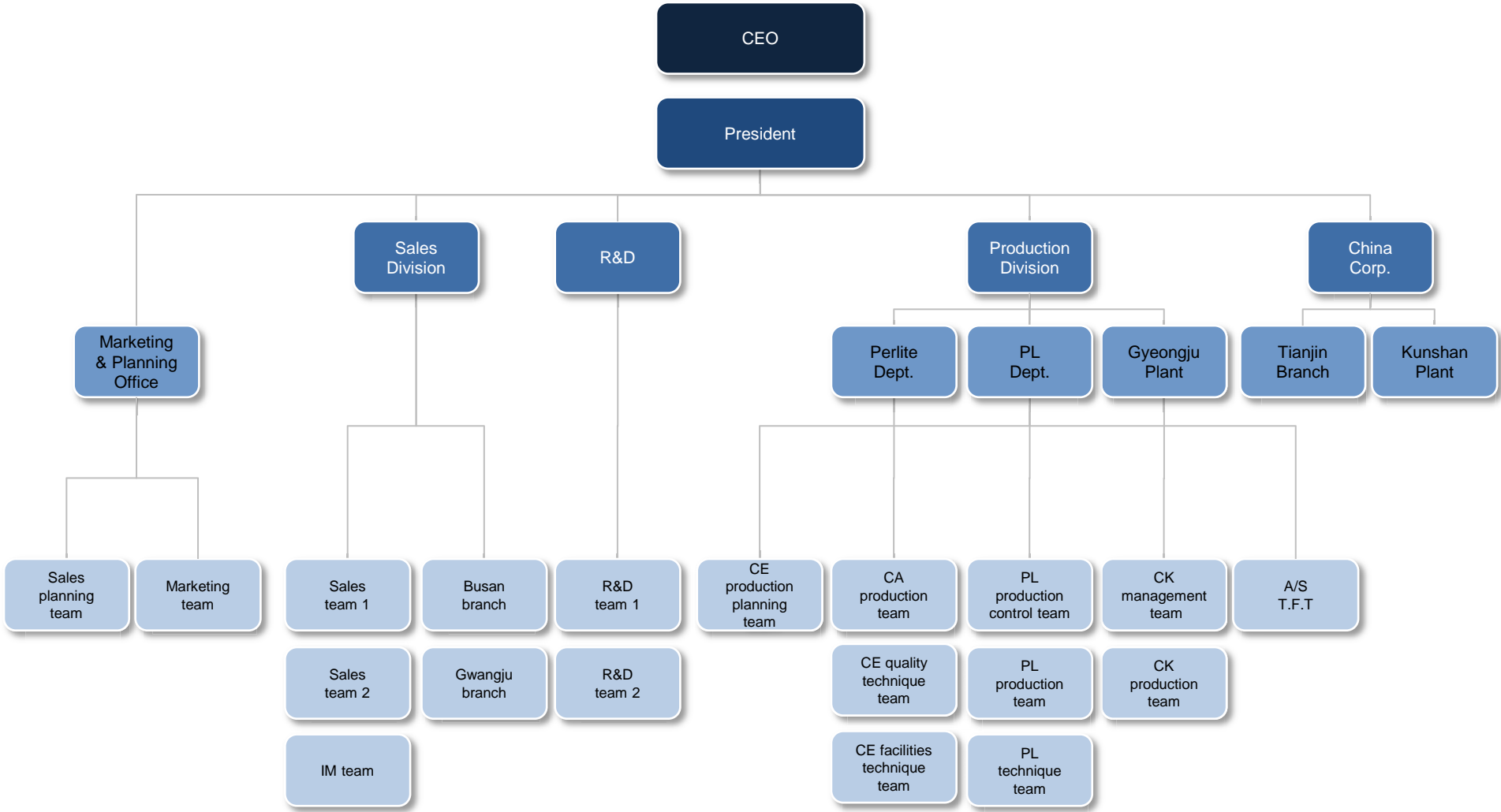


2010s

- 2010 · Expanded business into plastic injection and precision parts assembling industry
- 2011 · **First in Korea to receive UL certificate for fireproofing material**
· **High performance perlite insulation "HYPERLITE", wins the President award at Korean national green tech awards**
- 2012 · Merged with KD One. Co., Ltd. and KD Network Co., Ltd.
- 2014 · **Developed Vacuum Insulation Panel "HYPER-VAC" and Mastic fireproofing material "MASCOAT-F"**
· **Perlite for green roofs, "PARASO", Obtained Carbon Labeling certificate**
- 2015 · **Launched High efficiency microporous insulation "ULTRATHERM" & "FLEXTHERM"**

II. KD One Ceratech

3. Organization chart



II. KD One Ceratech

4. Headquarters, Branches, Plants and R&D Center

KD One Ceratech has a head office at Seoul and 3 branch offices at Busan and Gwangju in Korea and Tianjin in China.

And KD One Ceratech is operating 3 plants manufacturing Perlite products at Asan and Gyeongju in Korea and Kunshan in China.

(*Okpo plant and Daegu plant are manufacturing insulation boxes filled with perlite for LNG carrier.)

1 Seoul Headquarters



5 Asan Plant & R&D ctr.



2 Gwangju Branch



6 Gyeongju Plant



3 Busan Branch



7 Kunshan Plant



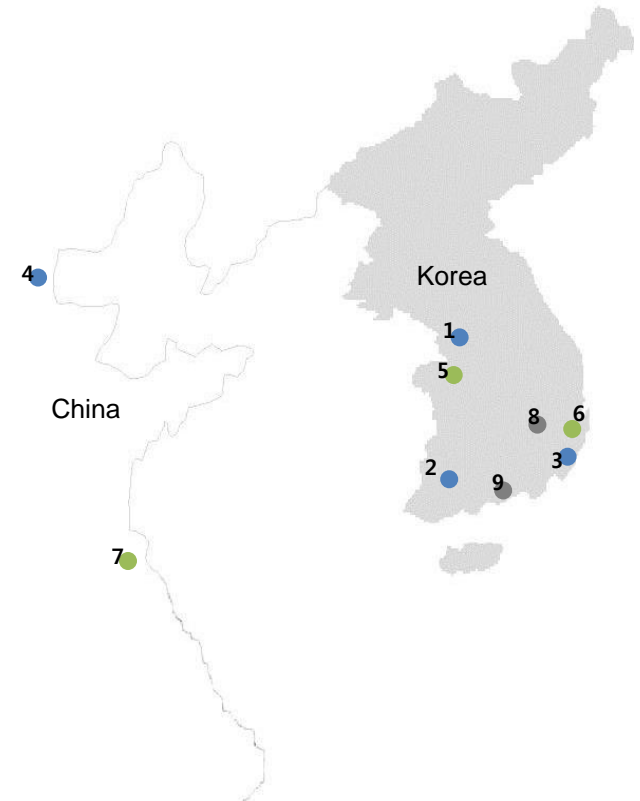
8 Daegu Plant(LNGC)



4 Tianjin Branch



9 Okpo Plant(LNGC)



II . KD One Ceratech

5. Our Markets



Buildings,
Cleanrooms,
Food factories, etc.

Petrochemical plants,
Refineries,
Power plants,
Gas storage tanks,
LNG carriers,
other cryogenic
storage containers.



Growing mediums,
Gardens, Golf courses,
Grass fields, etc.



Home appliances,
Refrigerated truck, etc.



Beer,
paint etc.

II . KD One Ceratech

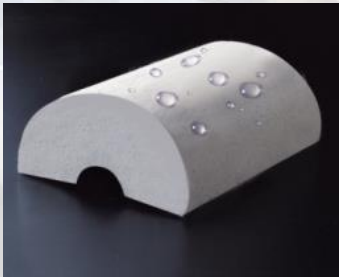
Insulation Materials



SUPERLITE

Water repellency
perlite insulation

- Received KS F 4174
- Pipe cover & Board



SUPERLITE-A

Water repellency
perlite insulation

- Qualified for ASTM C610
- Pipe cover & Board & Elbow



HYPERLITE

Better efficient Water
repellency perlite insulation

- Received KS F 4174
- Pipe cover & Board & Elbow



ULTRATHERM

High efficient molded
microporous insulation

- Qualified for ASTM C1676
- Pipe cover & Board & Elbow



FLEXTHERM

High efficient Quilted
microporous insulation

- Qualified for ASTM C1676
- Quilted panel (flexible type)



II . KD One Cerasech

Cryogenic Insulation Materials and Perlite Filling work



CR615

Perlite insulation materials for LNGC



Section of LNGC

CR605 & Cryogenic insulation Work

Perlite loose fill insulation materials & whole Cryogenic insulation work or perlite filling work



Section of gas tank

HYPER-VAX

Fumed silicated vacuum insulation Panel (For LNG Carrier, LNG Bunkering)



II . KD One Ceratech

Building materials

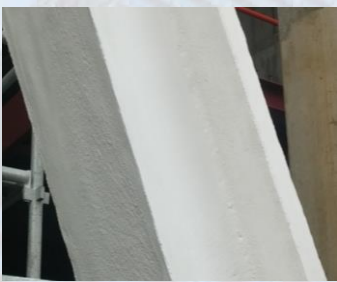
HYPER-VAC

Fumed silicated vacuum insulation Panel



MASCOAT-F

Mastic Fire-Resistive Coating



ESSCOAT

Spray Applied Fire-Resistive Material
(Listed in UL263)



ESSCOAT NT/E+

Spray Applied Insulation Material



DIVINE

Stone Coated Steel Roof Tile



II . KD One Ceratech

Environment materials



PARASO SYSTEM

Green Roof System



Paraso for draining



Paraso for growing



Paraso top

PARAGREEN

Perlite Soil Amendments



PARAT

Perlite Soil for Agriculture & Gardening

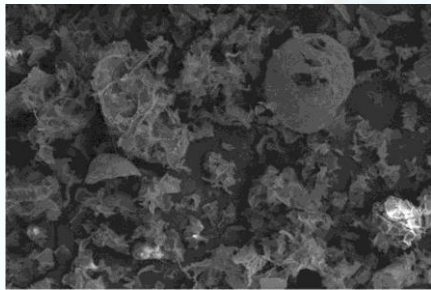


II . KD One Ceratech

High performance materials

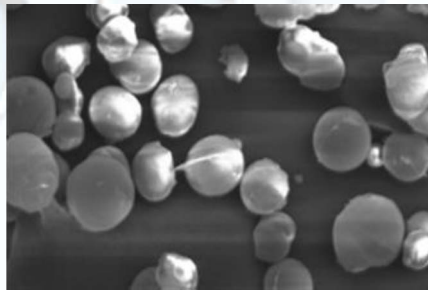
PARACELL

Perlite Filter-Aid



ONYXELL

Hollow Sphere Perlite Filler



KD BRAZE

Brazing paste and solder cream



PLASTIC COMPONENT



8. Certificates and awards



Healthy building material certificate



Eco label



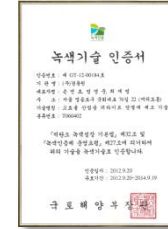
UL certificate



New excellent technology certificate



CE



Green certificate



GTT Approval



KS certificate: water repellent heat insulator made of perlite (Type1)



KS certificate: water repellent heat insulator made of perlite (Type2)



KS certificate: Insulating mortar



GR mark



KS certificate: Granule stone coated steel roof tile



Lloyd's Register Approval



ISO:9001



DNV Business Assurance Management System Certificate



Global Brand



The President award at Korean national green tech awards



Energy winner prize

