



# KYUNGDONG ONE

and diving some little in



www.kdone.co.kr



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## Field of Business

1. Architecture & Landscaping

Products

- 2. Plant and Shipbuilding
- 3. Planting & Raw materials
- 4. Plastic



# KD ONE

# CREATION OF THE FUTURE HUMAN AND NATURE



SMARTER LIVING ENVIRONMENT PARTNER



#### ONe

# General Info

With the corporate vision of being a 'world-leading green company for pleasant living environments', KyungDong One Co., Ltd. is involved in insulation and fireproofing businesses as well as its home network business, and is growing as a globally competitive brand.



Company Name: Kyungdong One Co., Ltd. / ㈜경동원

CEO: Yeonho Sohn

**Foundation** : 1982. 3

Affiliate Company : KD Navien, KD Everon, KD TS

Asset Status : Capital 5.4 MUSD / Asset Total 612 MUSD (Late 2018)

Annual Sales : 243 MUSD (Late 2018)

Production Base : Asan, Kyungju, Pyeongteak, Seotan Plants

Overseas Corporation : China Kunshan & Tianjin (Co,)

Employees : 519 People

Ideology : Contribution to society through coporate activities

Vision : Worldwide 1st Class E<sup>2</sup> Solution Company

# O2 CEO Greeting

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KyungDong One Co., Ltd. will develop and grow as a company that creates hope for the future, based on the utmost efforts of all executives and employees to achieve our corporate vision and goals.

KyungDong One Ceratech Business was the first company in Korea to introduce perlite technology, and has been growing as a company engaged in the manufacture and sale of a wide range of construction/industrial materials using perlite and other advanced materials. As well, we have been pioneering Korea's still–uncharted perlite industry through the development of perlite–related technologies, based on constant research and investment. In addition, we have been committed to the prevention of global warming and the restoration of the devastated urban environment through the development of pollution–free artificial soil and afforestation systems. We also have been contributing to increasing energy efficiency and stabilizing the residential environment and the national economy through developing a wide range of insulating materials, materials Spray–applied fire resistive materials and cryogenic insulation technologies for various plants including LNG vessels.

## o3 Company History



#### SAMSON CO., LTD.

# **1980**s

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- 1982 Samson trade Corp. founded
- 1983 Acquired 'Prospective medium & small enterprise certificate
- 1985 First in Korea to receive KS certificate for water repellent perlite insulation
- 1987 Complete Gyeongju's 2<sup>nd</sup> Plant
- 1989 Became the only Korean member of Perlite Institue Inc.

경동세라텍

# **1990**s

- 1991 Second in the world develop cryogenic insulation for LNGC
  - First in Korea supply artficial soil green roof system
- 1995 Completed Tenjin branch in China
  - Acquired approval of ministry of science and technology for R&D institue
- 1998 Completed Asan Plant
  - Acquired superior technology
  - Company certificate
  - Launch of Steel roof tile "DIVINE"

# **2000** s

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- 2000 Founded non-profit organization Nulpurun foundation'
  - Awarded Seoul Metropolitan City's
    Environment Technology Prize
- 2002 Changed company to KD CeratechCo.,Ltd.
- 2004 · Complete Kunshan Plant in China
- 2006 Obtained ISO 9001 certificate
- Asan Plant recognized as green house gas emission reduction facility
- 2008 Awarded Energy Winner Prize in Green Building Sector

# **ONE**

# **2010**s

- 2010 Expanded business into plastic injection and percision part assembling industry
- 2011 First in Korea to receive UL certificate for fireproofing material
  - High performance perlite insulation 'HYPERLITE', wins the president award at Korea national green tech award
- 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
- 2016 Launched High efficiency microprous insulation ULTRATHERM' & 'FLEXTHERM'

# <sup>04</sup> Affiliated Companies

# 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.



# **ND ONE**

Leads eco-friendly construction, commercial material production and development of home network.

#### Navien

Supplies the Best quality of boilers, water heaters, air conditioners, and heat recovery ventilators possible throughout the world.

Energy saving and national industrial development through synergy

#### **EVERON**

Develops and produces core components for HVAC products.

#### KD TS

Service company which leads protection of rights of customer through all services of Kyungdong's products and nurturing excellent engineers.

### <sup>05</sup> Business Area

# We will become a global leading brand not only by manufacturing construction and industrial materials using eco-friendly raw materials, but also by developing home network systems.



Ceratech business group

Ceratech business group



### Network business group

Network business group

KyungDong One's state-of-the-art technologies to lead the home network industry will give customers easy access to the Ubiquitous life.



**NONE** 

# <sup>05</sup> Location



# Ceratech Business : Target home and abroad markets through securing major foothold

# HEAD OFFICE

22, Gukhoe-daero 76-gil, Yeongdeungpogu, Seoul, Republic of Korea



BRANCH Busan Office

Busan Office

284, Chungnyeol-daero, Dongnae-gu, Busan



#### Gwangju Office

251, Mujin-daero, Gwangsan-gu, Gwangju



# **RESEARCH INSTITUTE**

#### **Central Research Institute**

331, Asanho-ro, Yeongin-myeon, Asan-si, Chungcheongnam-do, Republic of Korea



## PLANT

Asan Plant

331, Asanho–ro, Yeongin –myeon, Asan–si, Chungcheongnam–do,



#### **Gyeongju Plant** 1095, Cheongang-ro,

Gangdong-myeon, Gyeongju-si, Gyeongsangbuk-do



CHINA COPORATION

**Tianjin Office** 

No.50,Xiabin road,Lujia 1–2–1001,Jiade Bldg, Town, Kunshan City, Jiansu Jintang Road, Dongli,Tianjin City



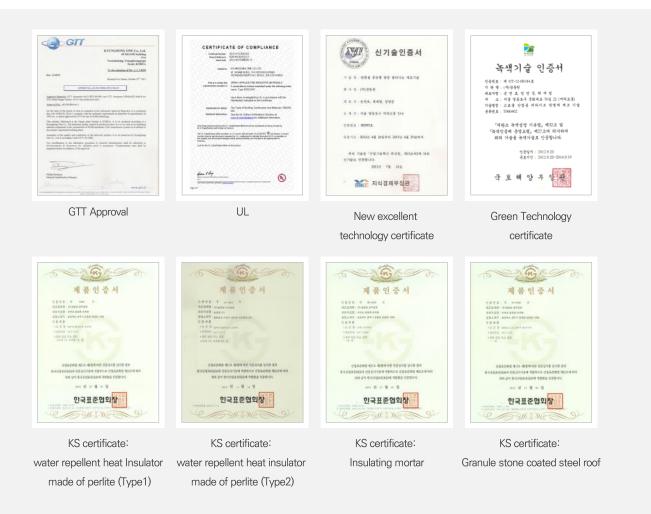
Kunshan Plant



#### **KYUNGDONG ONE** / 09

# <sup>06</sup> Certificates and awards

# The Status of Energy Expertise through Continuous Research





**NONE** 

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# Business Area

ECO-FRIENDLY MATERIAL Fireproof specializing company "KD One Business department"



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Architecture & Landscaping

# Plant & Shipbuilding

# 농원예재 및 Planting & Raw materials

Plastic



**NONE** 



# Architecture & Landscaping

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# <sup>02</sup> Plant & Shipbuilding



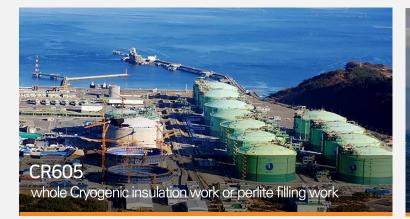




ULTRATHERM High efficient molded microporous insulation



FLEXTHERM High efficient Quilted microporous insulation





CR615 / GLASS WOOL MACH Perlite & Glass wool for LNG Carriers approved by GTT



# <sup>03</sup> Planting & Raw materials











PLASTIC COMPONENT Molded item injection and molding technologies

04

Plastic

**NONE** 

# Products

# **ECO-FRIENDLY MATERIAL** Fireproof specializing company "KD One Business department"



SMARTER LIVING ENVIRONMENT PARTNER







# HYPER-VAC

#### High performance fumed silica VIP

High performance vacuum insulation panel, HYPER–VAC is made up of a fumed silica core and covered with metalized film. It has 8 to 10 times better insulation performance than conventional insulations. Especially unlike existing fumed silica vacuum insulation panel, HYPER–VAC is made up of fumed silica and perlite which forms structure. It has characteristics of outstanding insulation performance and strength even with low density.

# HYPER-VAX

#### High performance fumed silica VIP (LNG Carrier, LNG Bunkering, Ship chamber Etc)

HYPER–VAX is a high performance vacuum insulation panel especially works well in cryogenic environments. It is made up of a fumed silica core and covered with metalized film strengthened by glass fiber.



### Perlite-based steel frame Spray-applied Fire Resistive Materials (SFRM)

ESSCOAT UL is a steel frame refractory coating material that offers enhanced refractory performance and constructability by applying world-leading perlite expansion technology to the refractory coating material, for the first time in the world.



# **BIO PARASO System**

### Artificial ground afforestation solution

BIO PARASO System is an artificial ground afforestation solution that creates a pleasant and affluent living environment by infusing greenness in the gray–colored urban environment.

# DIVINE

## Metal Roofing

DIVINE is metal roofing material made of galvarium steel plating coated with stone chips in beautiful colors.

# HYPERLITE

### High-efficiency industrial thermal insulation Material, in a molded pipe or board form

HYPERLITE is a high–efficiency industrial thermal insulation material to enhance thermal efficiency by reducing the heat loss generated in the thermal media storage and transfer line across multiple industries, including nuclear power generation, thermal power generation and steel manufacturing.

# SUPERLITE-K / SUPERLITE

#### Cylindrical or planar perlite heat insulation materials

SUPERLITE is a cylindrical or planar heat insulation material, which is made of industrial expanded perlite and is manufacture by mixing, processing, molding and high–temperature treating a mineral assembly.

**N**ONE





# ULTRATHERM

#### **High Efficiency Microporous Insulation**

ULTRATHERM is a Microporous insulation with an outstanding thermal conductivity and high efficiency. Especially its thermal conductivity is remarkably stable over a wide range of temperatures while thermal conductivity of conventional insulation increases dramatically as temperature gets higher.

# FLEXTHERM

#### High Efficiency Quilted Microporous Insulation

FLEXTHERM is new concept of Microporous insulation with quilted blanket shape, which has an outstanding thermal conductivity and high efficiency. Especially its performance at high temperature is remarkably stable than conventional insulation. Most of all, it is easy to install.

# CR605

### Perlite loose fill insulation material & whole cryogenic Insulation work of perlite filling work

St. Ant

KD ONE has been successfully carrying out industrial cryogenic liquified gas storage tank filling projects such as the incheon/ Tongyoung/ Pyeongtak/ Samcheok LNG terminal project and various cryogenic insulation projects overseas.

# **GTT LNGC INSULATION**

### Insulation materials for LNGC storage tank

KD ONE has been supplying more than 200 LNG Carriers for the past 20years with DSME, HZ, STX the type of GTT NO96 Containment system. We have two kinds of GTT certificates for LNGC using by Perlite and Glass wool. We always pursue the best techlnology and safety in the world.

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# PARAT

#### Dedicated nutriculture medium

PARAT is a sterile, odorless, non-toxic and 100% mineral based dedicated nutriculture soil, which is manufactured by expanding crystallized natural perlite at a high temperature.

# PARAGREEN

### Soil improvement materials

PARAGREEN is a pure inorganic soil conditioner product that creates soil with the optimal physical properties for plant growth by resolving soil problems in a customized way.

KYUNGDONG ONE × 24

# FINECELL

#### Ultralight and porous filler materials

FINECELL is an ultralight multifunctional filler material that is produced by expanded perlite.

# PARACELL

#### Filter aid medium processed with expanded perlite

PARACELL is a filter aid product made through the processing of sterile, non-toxic, tasteless and ordorless expanded perlite, which is produced through the rapid expansion of volcanic perlite to over 20 times its original volume by applying heat at a temperature of over 1,100°C.

**KYUNGDONG ONE** × 25

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#### Molded item extraction and molding technologies

The PLASTIC business is the outcome of new molding and forming technologies developed based on the state-of-art-technologies and the most proficient and competent technical personnel, in which all processes, from the input of materials to the output of molded products, are automated.



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Worldwide 1st Class E<sup>2</sup> Solution Company

CREATION OF THE FUTURE HUMAN AND NATURE

Thank you for your attention