

High Thermal Insulating and Resisting Ceramic Furnace Wall for Industrial Furnaces

Features

Replacing conventional furnaces with THERMOTECT WALL™ enables to reduce the amount of heat loss through walls for reduced fuel consumption. Our THERMOTECT WALL™ technology can be also applied to areas prone to physical and chemical damage, to which refractory ceramic fibers (RCF) could not be applied. Thus, it is a promising solution with potential for wide-range applications.



Basic Concept or Summary

THERMOTECT WALL™ is a furnace wall with excellent thermal insulation and heat resistance property that can be applied in a wide temperature range from 800 to 1700 °C. The wall uses special raw materials utilizing recycled raw materials from our manufacturing plants and does not contain. THERMOTECT WALL™, high thermal insulation ceramic furnace wall developed by AGC Ceramics, a consolidated subsidiary of AGC Inc. Group has been awarded the Director-General's Prize (in the Product and Business Model Category) at Grand Prize for Excellence in Energy Efficiency and Conservation in 2015 (sponsored by the Agency for Natural Resources and Energy).

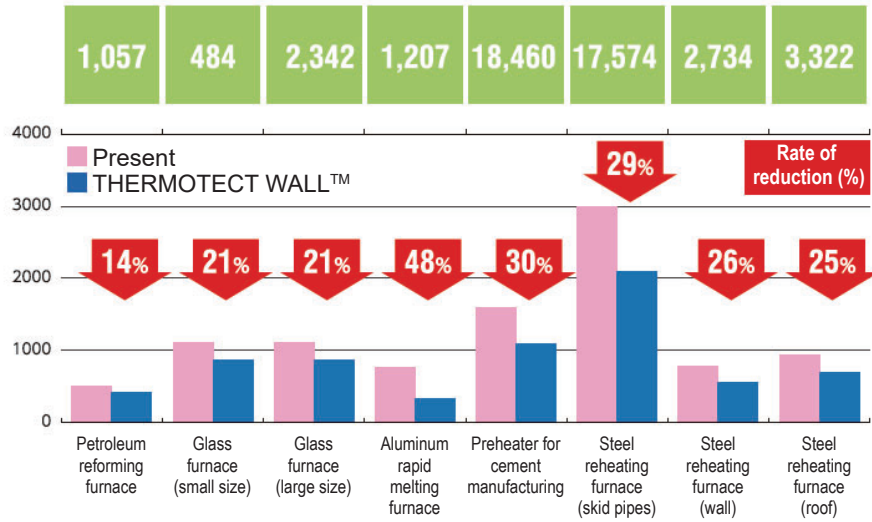


FY2015
Grand Prize for Excellence in Energy Efficiency and Conservation
(Product & Business Model Category)
Sponsored by the Agency for Natural Resources and Energy

Efficiency of energy saving (trial circulation for industrial furnaces of each field)

Reduced amount of heat loss (GJ/annual) per each plant

Amount of heat loss per m² (W/m²)



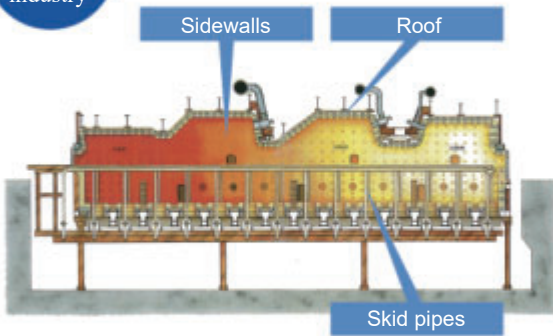
Installation in Practice or Schedule

Domestic See below for examples of cases where THERMOTECT WALL™ is applied.

Application of THERMOTECT WALL™

Application example for steel industry

Where THERMOTECT WALL™ is used:
The walls, roof and skid pipes of a reheating furnace

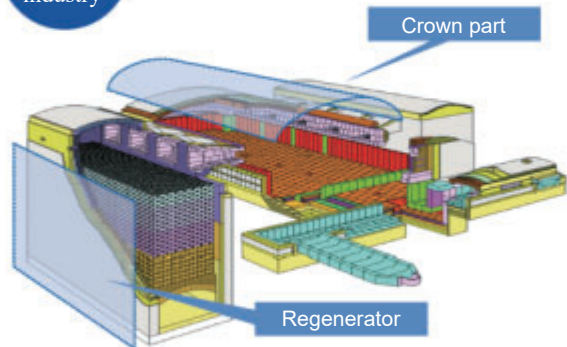


Reduction rate of heat loss (compared to those using conventional materials)
25-29%

- Enables long-lasting energy saving with its excellent thermal resistance, corrosion resistance, and thermal insulation properties.

Application example for glass industry

Where THERMOTECT WALL™ is used:
Regenerator, crown of melting tank, etc.



Reduction rate of heat loss (compared to those using conventional materials)
21%

- High temperature glass furnace excellent in corrosion resistance with alkaline gas, providing long-lasting thermal insulation prop
- Replacing refractory ceramics fibers, THERMOTECT WALL™ prevents deterioration of thermal insulation performance over time to provide energy saving performance.

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