

[www.metalfiber.com](http://www.metalfiber.com)



대한민국 10대 신기술

An eco-friendly company that thinks  
about the environment and the future  
**FiberTech Co., Ltd.**

World Best Burner Media & Emission Control Devices

# Metal Fiber Technology



| About us |



FiberTech contributes to advancing new growth industries such as environment, energy, and new materials by mass-producing ultra-fine metal fibers, advanced materials in the 21st century, through its patented **Molten Metal Extraction** method. Through constant R&D, we will assume the role of a global leader in eco-friendly growth.

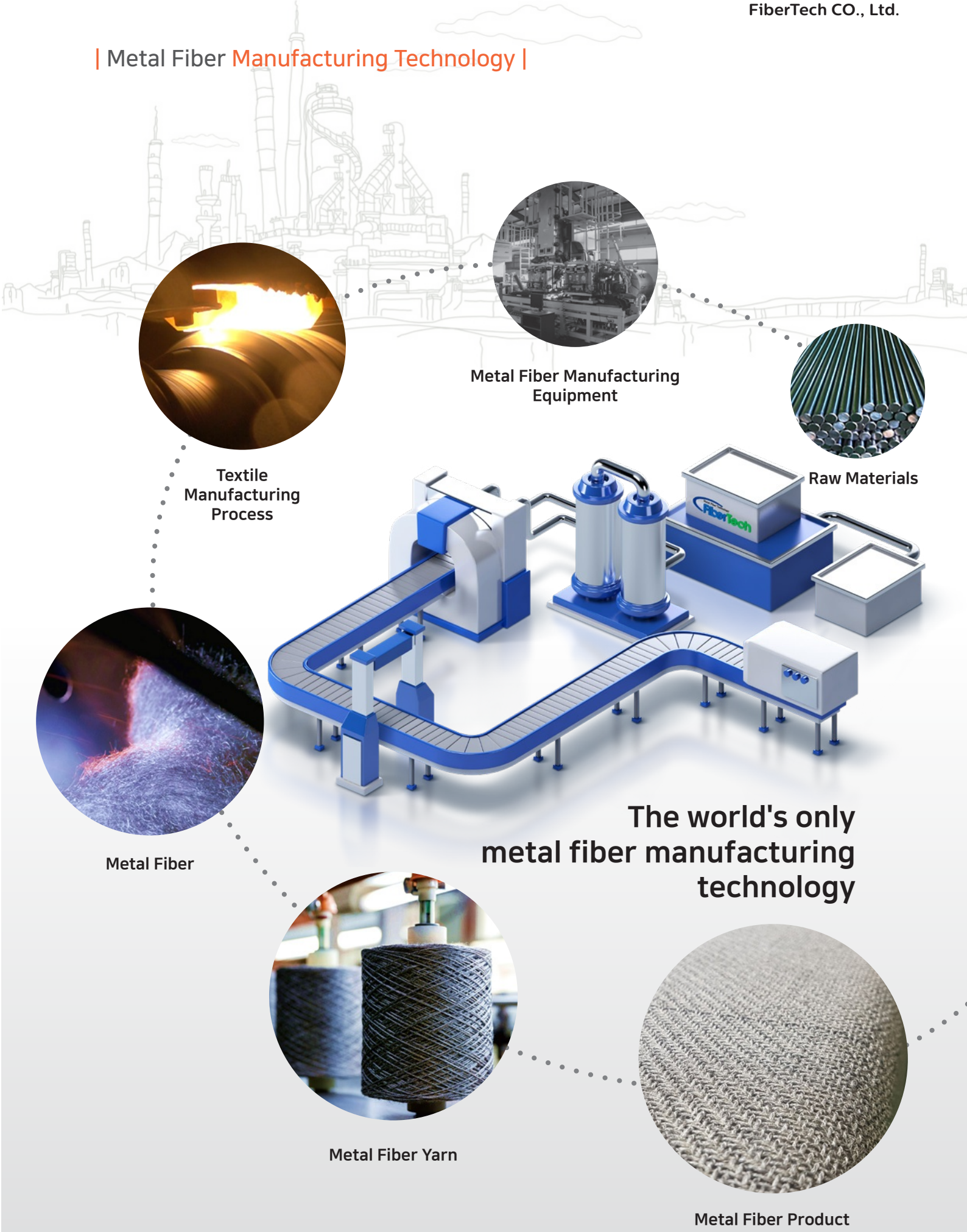
The world's only Molten Metal Extraction method is proprietary and the most economical in the world and boasts superior metallic properties over the existing metal fiber manufacturing technologies. Also, it is an **eco-friendly method** that does not involve any chemical treatment process for production.



| History |

- 2021 Entered into the mid-sized DPF business for old diesel vehicles and implemented installation
- 2020 Won award for Merit Achievement of SMEs (Minister of Science and Technology); and launched eco-friendly portable top-down grill called BRATEN Carpe Gusto, achieving supply of 1 million units for local & foreign home-use boiler woven mats and burners;
- 2017 Entered into the compact DPF business for old diesel vehicles and implemented installation
- 2015 Selected as a partner of Korea's No. 1 boiler manufacturer
- 2014 Signed development cooperation & mass-production contracts with North America's No. 1 company dedicated to burners
- 2012 Developed GPF for gasoline GDI engine and flow through substrates, earning an award for exporting USD1 million; and succeeded development of square burners for domestic industrial boilers
- 2011 Acquired ISO/TS16949 certification; Completed development of Euro6 emission DPF, flow-through substrate (TWC, DOC, LNT);
- 2009 Acquired DPF Level III certification for 6-12L diesel vehicles in the U.S. (CARB, USA)
- 2006 Sintered/ woven mats entered South American & European markets.
- 2004 Successful commercialization of woven and development of exhaust reduction device
- 2002 Succeeded commercialization of sintered mat Received. Award of Korea's Top 10 New Technologies
- 1993 Founded Fiber Tech Co., Ltd.

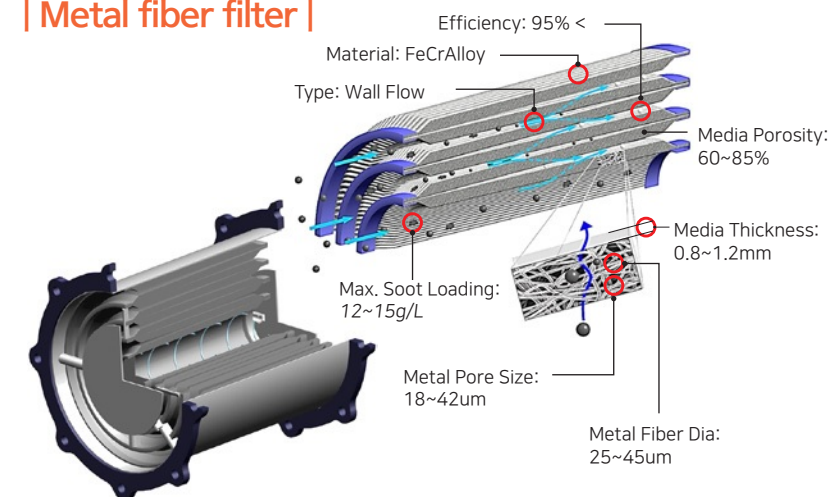
| Metal Fiber Manufacturing Technology |



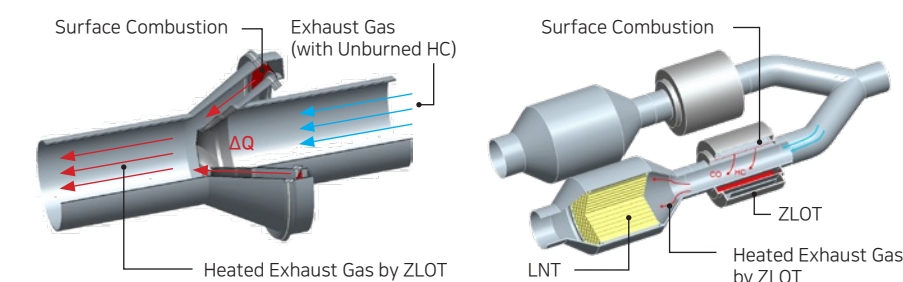
## For automotive and industrial industries Catalyst substrate for hazardous emissions treatment & various filters such as DPF & GPF

- Metal fiber DPF: Filters to reduce diesel vehicle exhaust (PM\_particle material)
- ZLOT: Ultra-fast activation device for hazardous emissions reduction catalysts for vehicles

### | Metal fiber filter |



### | Automotive exhaust gas reduction device 2 |



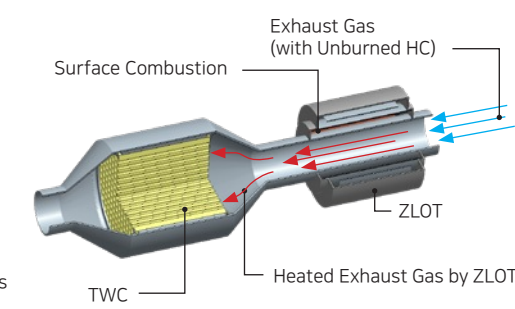
- **S-ZLOT**
  - Use: SCR heat up
  - Function: Improve reduction efficiency for NOx of SCR

- **Dual L-ZLOT**
  - Use: NOx reduction
  - Function: LNT heat up, NOx Deoxidation

### | Automotive exhaust gas reduction device 1 |



- **BMR100/200**
  - Use: PM, CO, HC reduction
  - Function: Active regeneration

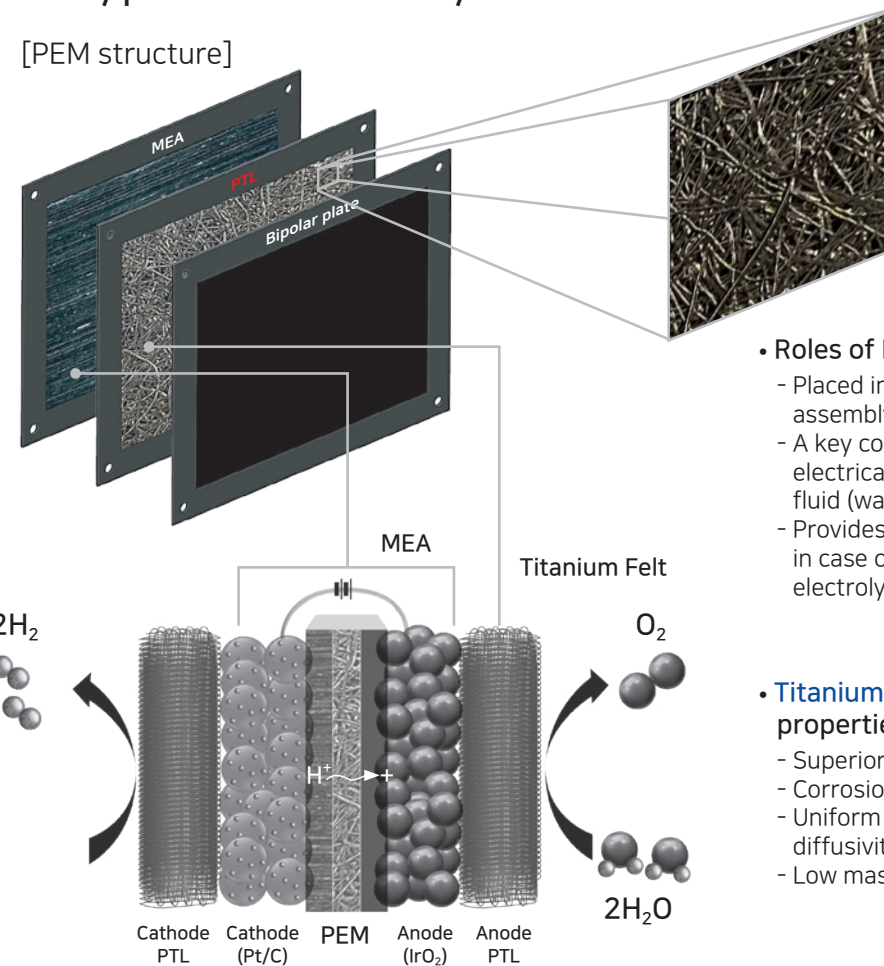


- **T-ZLOT**
  - Use: Reduce exhaust gas when starting up the ignition
  - Function: TWC Warm Up(@Cold Start)



## A key part of water electrolysis device: **Titanium Fiber Felt**

[PEM structure]



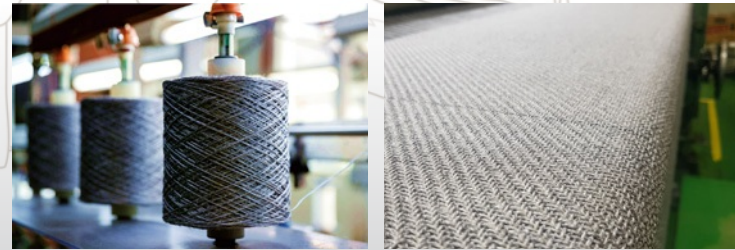
- PTL (Porous Transport Layer)
- **Titanium Fiber Felt**

### • Roles of PTL (**Titanium Fiber Felt**)

- Placed in between MEA (membrane electrode assembly) & a separation plate;
- A key component responsible for the cell's electrical & thermal conduction, reaction fluid (water), and generated gas transfer;
- Provides mechanical support for MEA & electrodes in case of differential pressure in the water electrolysis stack.

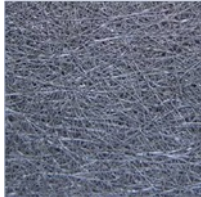
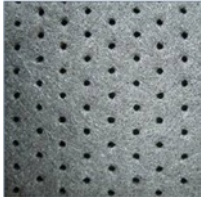
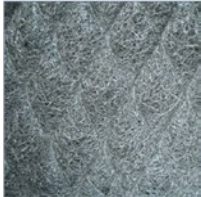
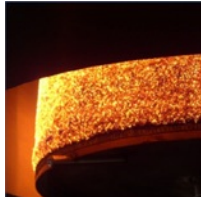
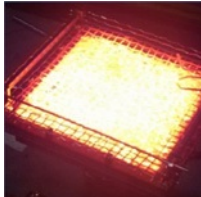
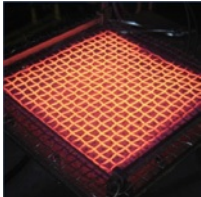
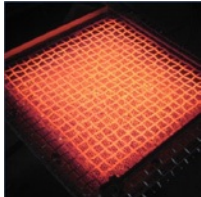
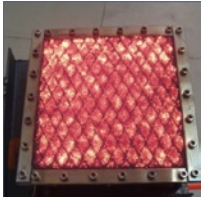
### • **Titanium Fiber Felt**, satisfying PTL required properties

- Superior electrical and thermal conductivity
- Corrosion resistance
- Uniform distribution of reactive fluids and high diffusivity
- Low mass transfer resistance, etc.

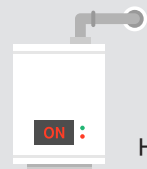


### Burner media and system sector

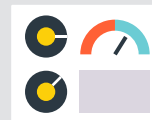
- Woven Mat
- Sintered Mat
- Perforated Sintered Mat
- Embossed Mat
- Woven Mat Burner
  - Cylindrical
  - Circular
  - Rectangular
- Other Media

| Woven mats                                                                          |                                                                                     | Sintered mats                                                                       |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| WFF1-15<br>normal                                                                   | WFF1-20<br>heavier                                                                  | SFF1-35<br>normal                                                                   | SFFP-35-4<br>perforated                                                             | SFFP-30-2<br>perforated                                                              | SFFE-30<br>embossed                                                                   |
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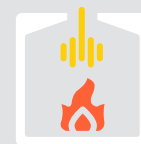
#### Application



Home



Instantaneous



Industrial

# BRATEN

Carpe Gusto



Registration No. : R-R-FTm-CarpeGusto  
Gas Safety Corporation: No.18-24-064

It showcases the taste,  
with an eye-catching design.

## BRATEN Carpe Gusto



Possible to cook a range of available  
dishes from grilling to grilled-skewers.

You can cook a variety of dishes with one BRATEN.  
Cook everything from main to side dishes with the product.



BRATEN Carpe Gusto



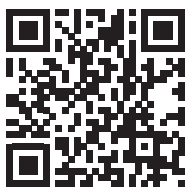
BRATEN Hi Smooth-Top Range



BRATEN Table



BRATEN Torch



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(주) 부-스라

**CleanBurnerSystems**

**ABUTECH**™  
Advanced Burner Technologies

**Solaronics**

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