



# **High Surface Area Activated Carbon(MAXSORB<sup>®</sup>) for PFAS removal**

**Kansai Coke and Chemicals Co., Ltd.**

**MC Evolve Technologies Corp.**

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# Properties of Activated Carbon for PFAS removal

Product Name	Activation	Shape	Particle Size μm	D50 μm	Specific Surface Area m <sup>2</sup> /g	Pore Volume ml/g	Average Pore Diameter nm
New Product	Alkali	Fiber	-	φ17(about)	3050	1.59	1.85
Charcoal base AC	Steam	Powder	53~125	135	1100	0.46	1.42
Coal base AC	Steam	Powder	53~125	117	1090	0.56	1.81

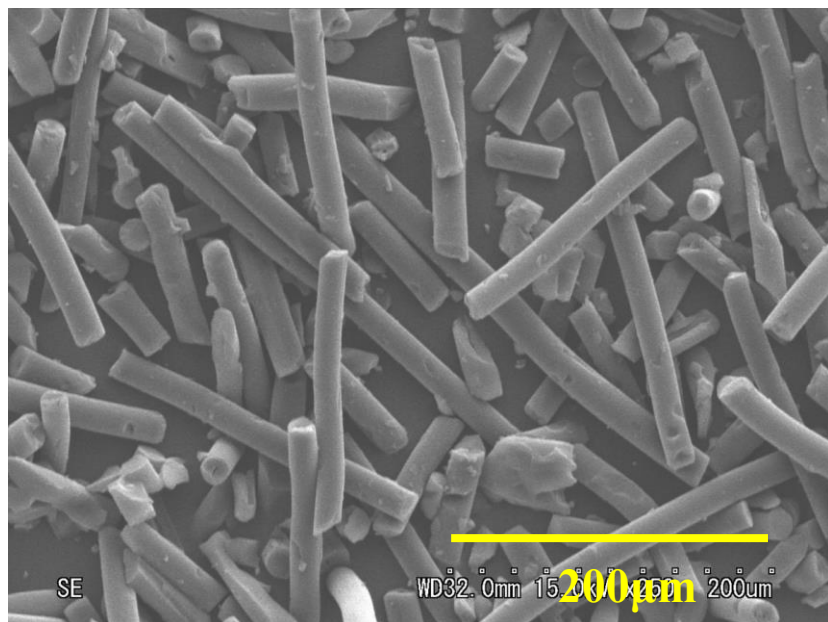


Fig. SEM image of New Product

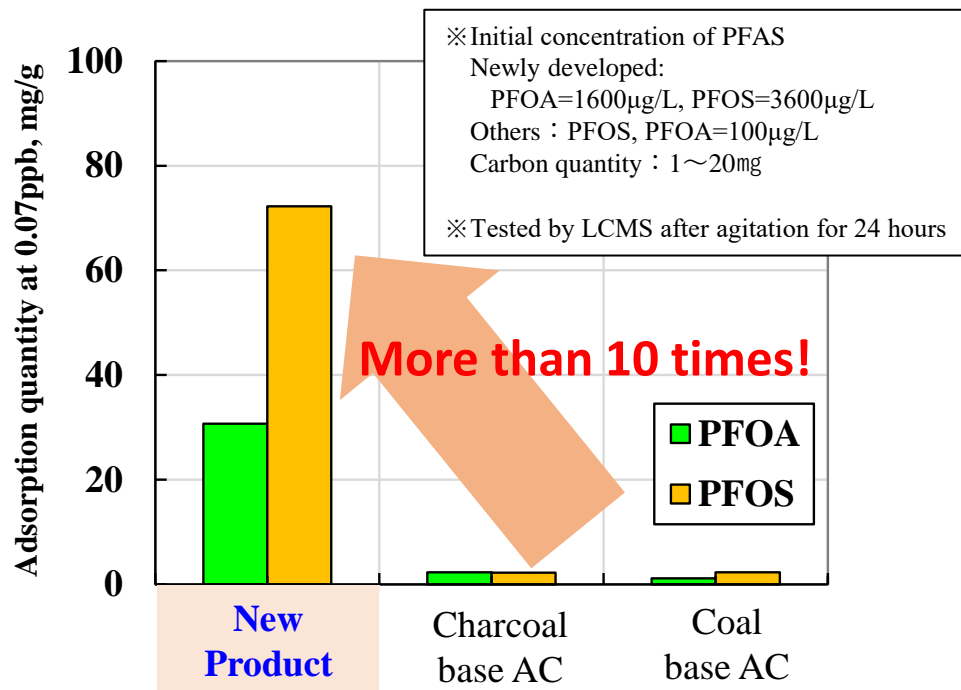


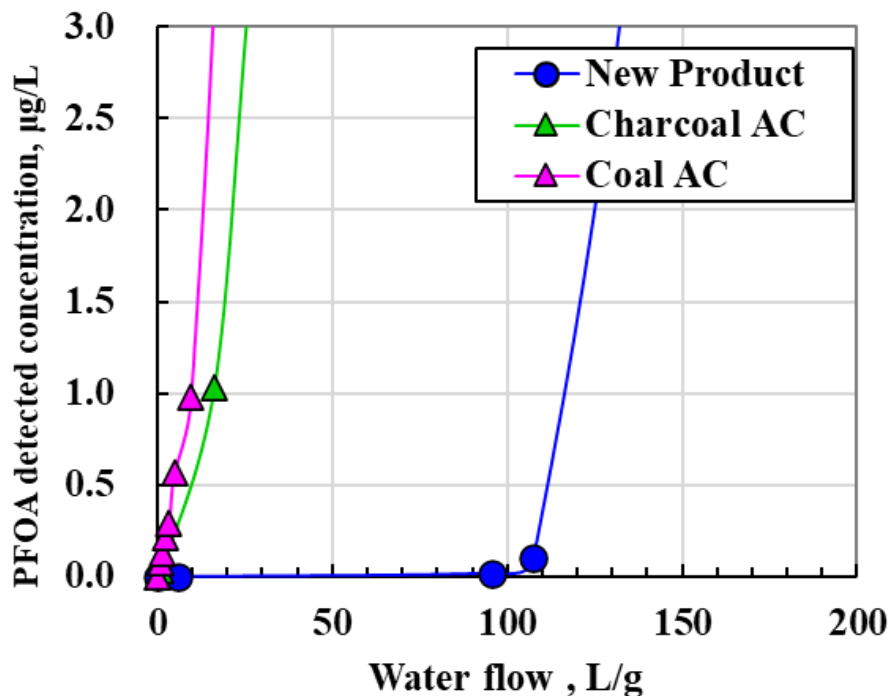
Fig. Equilibrium adsorption quantity of PFOA & PFOS

**More than 10 times higher performance of PFAS removal**  
**than conventional steam activated carbon**

## Removal performance of PFOA

SV=2500h<sup>-1</sup>,

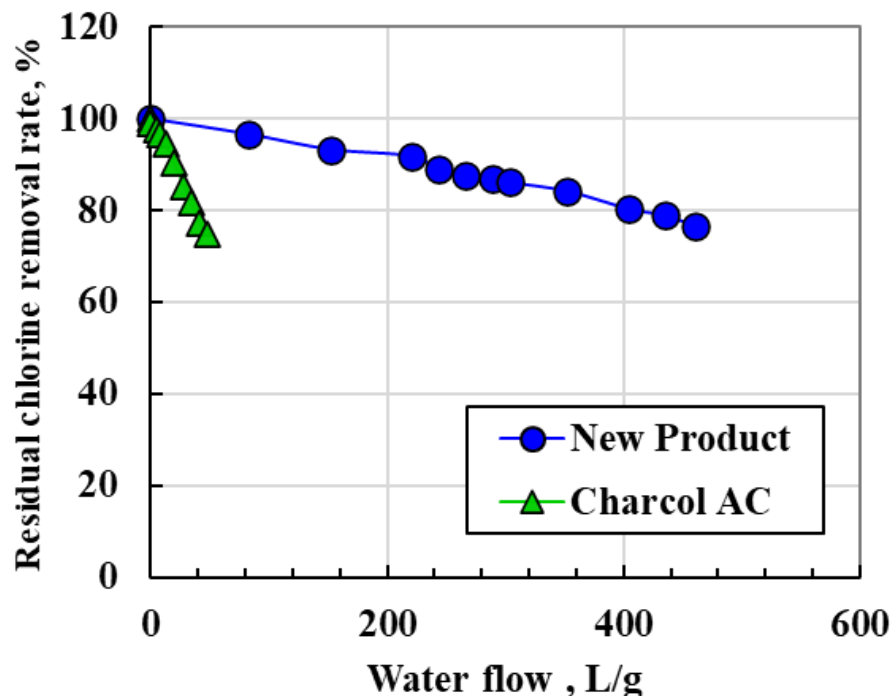
Test water concentration=0.6~0.9mg/L



## Removal performance of Residual chlorine

SV=6000h<sup>-1</sup>,

Effective chlorine concentration=2mg/L



**In addition to PFAS removal,**  
**higher performance of residual chlorine removal**  
than conventional steam activated carbon

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