

# Zeomic® LH210N for Lead Removal

Contact us: <https://www.zeomic.co.jp/en/contact/index.html>

## ■ Lead Adsorbent Zeomic® LH210N

Zeomic LH210N is a zeolitic lead adsorbent developed with the sole purpose of removing lead content in water.

It was designed primarily to be integrated with water purifiers (especially carbon block-type water purifiers).

## ■ Feature

- High Ion-Exchange Capacity
- Selectivity

*LH210N selectively removes lead even in water containing high concentrations of minerals (Na, K, Ca, Mg, etc.).*

- Controlled Particle Size

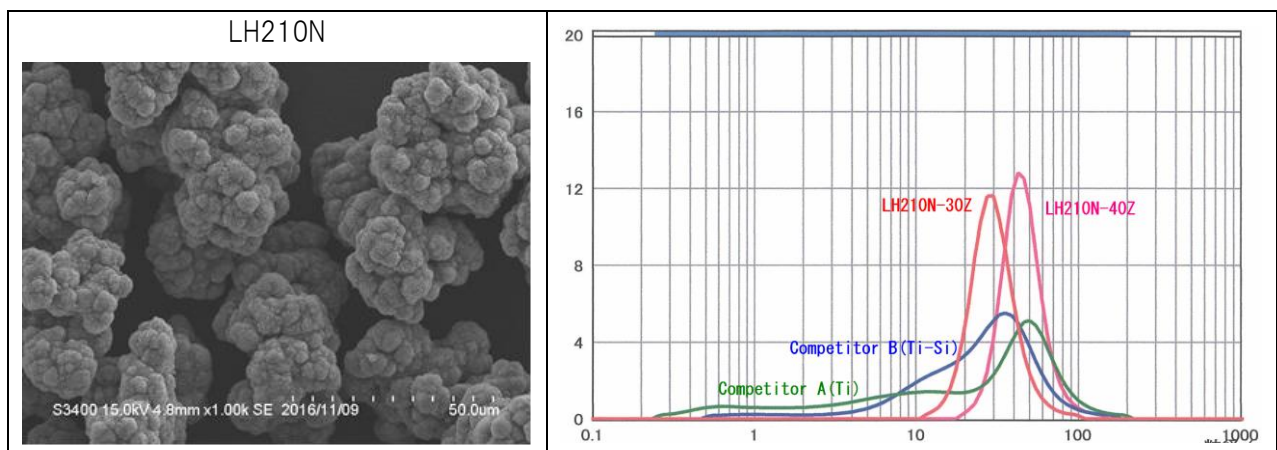
*Contains almost no fine particles under 10 $\mu$ m or less.*

- Certification

*LH210N is certified and listed under the NSF/ANSI 42 as media for drinking water treatment units.*

## ■ Product

Product Name	Particle size		Pb removal ability		
	D50[ $\mu$ m]	<10 $\mu$ m [%]	Capacity [mg/g]	NSF53 pH=6.5	NSF53 pH=8.5
LH210N-30Z	25~35	<5	≒500	◎	○
LH210N-40Z	35~45	<5	≒500	◎	○



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## ■ Adsorption Capacity Test (Laboratory Batch Test)

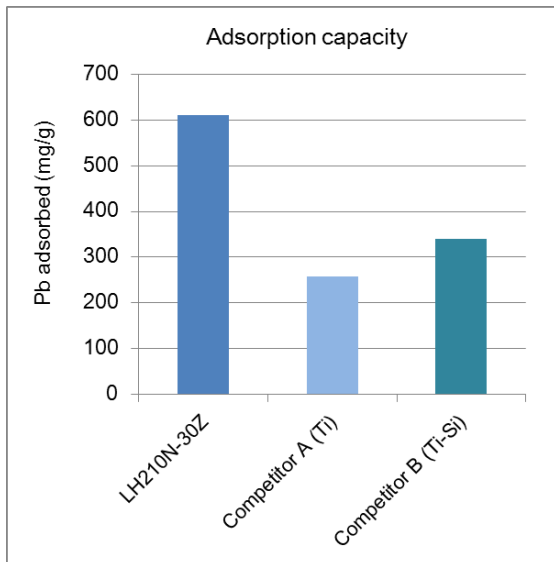
[Method]

Adsorbent : 50mg

Test water : 100ml of tap water containing 500ppm-Pb (from Pb (NO<sub>3</sub>)<sub>2</sub>)

Contact time : 24h

[Result]



- ✓ LH exhibits a greater adsorption capacity compared to competitor products.
- ✓ Addition volume can be further reduced when using carbon-block.

## ■ Effect of pH (Laboratory batch test)

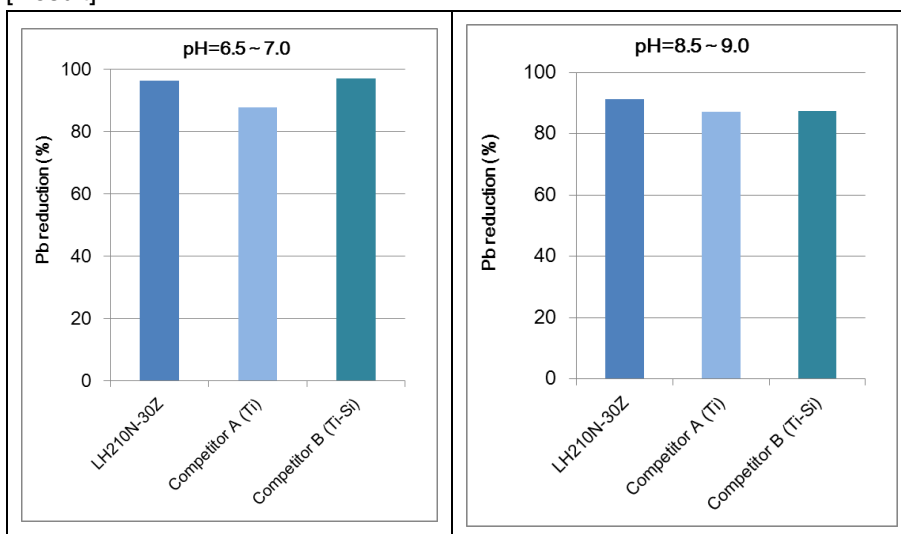
[Method]

Adsorbent : 20mg

Test water : 8000ml of tap water containing 300ppb-Pb (from Pb(NO<sub>3</sub>)<sub>2</sub>)

Contact time : 24h

[Result]



- ✓ LH10N showed high removal performance at both pH 6.5 and pH8.5.

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## ■ Adsorption Rate Test

[Method]

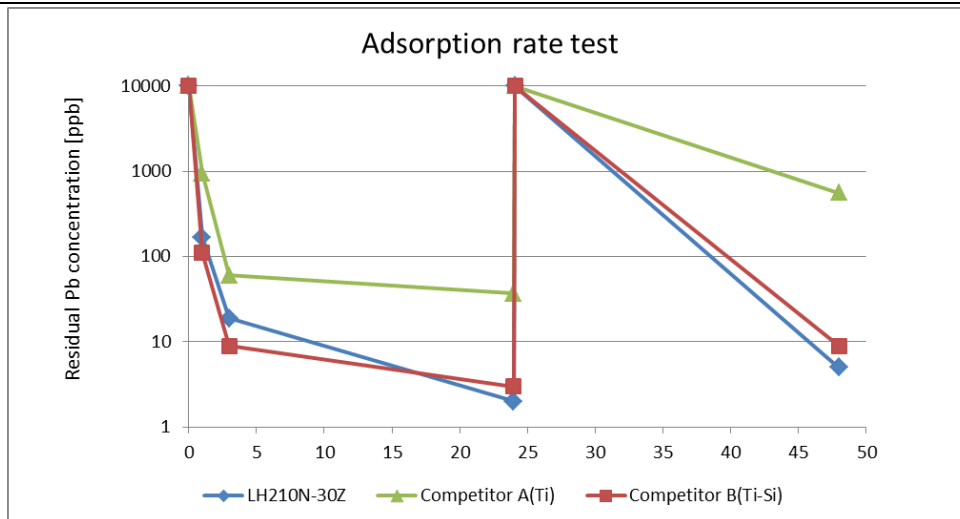
Adsorbent : 50mg

Test water : 500ml of tap water containing 10000ppb-Pb (from Pb (NO<sub>3</sub>)<sub>2</sub>)

Contact time : 1, 3, 24h

[Result]

	Residual Pb concentration [ppb]				
	1 <sup>st</sup> test				2 <sup>nd</sup> test
	0h	1h	3h	24h	24h
LH210N	10000	170	19	2	5
Competitor A(Ti)	10000	947	60	37	560
Competitor B(Ti-Si)	10000	110	9	3	9



✓ LH maintains an adsorption rate the same as Competitor B.