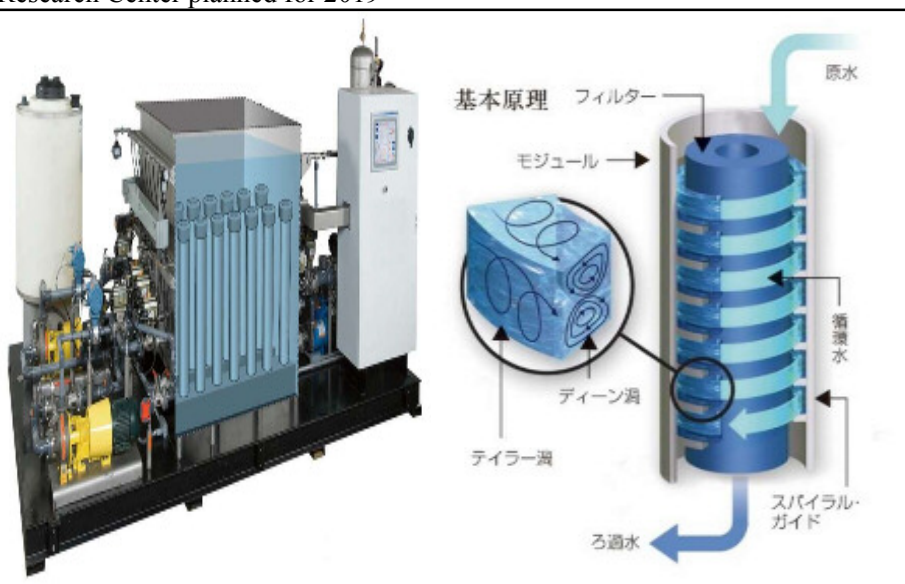

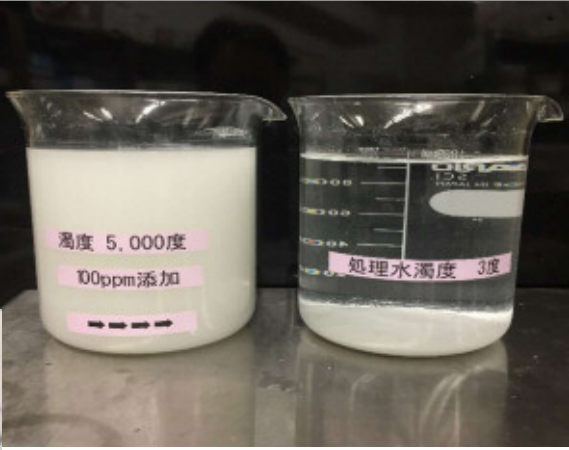


Kawasaki Green Innovation Cluster		Member Information	Management Number	Section Number	Company
<b>Business Classification</b>		Air, Soil and Water Business			
<b>Business Field</b>		Sales of Filtration equipment			
Company/Organization Information	Company Name	日本スレッド株式会社			
	Company Name (EN)	Japan Thread Co., Ltd.			
	President	Yuichiro Tsunematsu			
	Address	Konishi Bldg. 2F, 1-6-8 Atago Minato-ku, Tokyo, 105-0002, JAPAN			
	Contact	+81-3-6759-9461			
	Capital	8 million yen			
	No. of Employees	3			
	E-mail	<a href="mailto:y.tsunematsu@jthread.tokyo">y.tsunematsu@jthread.tokyo</a>			
	Website	<a href="http://www.reterra.jp">http://www.reterra.jp</a>			
	Branches/ Agencies	Japan: Head office and 1 other office (Kawasaki) Overseas:			
Business Activities, Messages and Others	Business Activities	<p>Japan Thread is an environmental consulting company with a head office in Minato-ku, Tokyo, established in 2009 to plan, propose, and sell low-cost, safe water treatment technologies (water purifiers and flocculants) developed by Reterra, an affiliated company.</p> <p>Japan Thread is a total distributor of thread filtration systems for municipal governments, and also we also plan other new products for the environmental sector. As Japan Thread is a fables company, these new products are outsourced for manufacturing. In 2006, the thread purification system (made in Israel) was awarded the Certification of Water Treatment Equipment from the Japan Water Research Center and has since been adopted by 6 waterworks bureaus across Japan.</p>			
	Message/ Other	<p>We are looking to collaborate with other enterprises to increase sales of our thread filtration system, which we have experience selling to both the public and private sectors in Japan.</p> <p>Our Double Clean Filtration System is still in the development stage, but we are looking to partner with other enterprises from the current stage and develop new markets. In particular, we are looking to target foreign markets with both our Double Clean Filtration System and SUMI-NAX.</p> <p>We are also interested in sewer and water supply systems and wastewater treatment projects in Vietnam, Indonesia, Mongolia for JICA's "Feasibility Survey with the Private Sector for Utilizing Japanese Technologies in ODA Projects" and "Verification Survey with the Private Sector for Disseminating Japanese Technologies." We are looking for companies who would like to do business using our flocculating agents and water purification systems.</p> <p><b>Japan Thread has certain strengths as a startup company and we are ready and willing to take on new challenges, so won't you work with us on a project to benefit others?</b></p>			
	Examples of Products	<ul style="list-style-type: none"> <li>◆ Thread filtration system <ul style="list-style-type: none"> <li>Certification: Japan Water Research Center (Water Treatment, #1001)</li> <li>3 models (MTG: 2,800 m<sup>3</sup>/day, 44P: 700m<sup>3</sup>/day, 22P: 270 m<sup>3</sup>/day)</li> </ul> </li> <li>◆ Double Clean Filtration System <ul style="list-style-type: none"> <li>Japanese patent (issued: April 2017), international patent (PCT) pending</li> <li>Breakthrough filtration method utilizing 4 natural phenomena</li> </ul> </li> <li>◆ SUMI-NAX inorganic flocculating agent <ul style="list-style-type: none"> <li>Certification pending from Japan Water Works Association</li> <li>This product is made of natural minerals, ensuring safety</li> <li>Production is contracted out to a factory in Yantai, China, which reduces cost</li> </ul> </li> </ul>			

Kawasaki Green Innovation Cluster Product/ Technology Information		Management Number	Section Number	Company
<b>Business Classification</b>		Air, Soil and Water Business		
<b>Business Field</b>		Sales of Filtration equipment		
<b>Company Name</b>		<b>Japan Thread Co., Ltd.</b>		
<b>Product/ Technology</b>		<b>Double Clean Filtration System</b>		
Overview of Product/Technology	Characteristics	This unique filtration system is being developed utilizing four natural phenomena and utilizes newly-developed wound thread filters, which can withstand backwashing. This module is proficient at pretreatment and works with high flux and accuracy. The thread wound filters (nominal openings of 2.0 μm) are durable and lower the running cost. The immersion-type filtration is well-suited for treating wastewater (sewage), drain water, and ballast water.		
	Keywords	The spiral guides built into the inner wall of the modules creates a whirlpool. Passing through the filters installed inside the module, even water with a high turbidity can be purified.		
	Price			
Detailed Information about Products/Technology	Details	Size of 1 module 750 mm × 70 mm; size of 10 modules (1 unit) 120 mm × 1500 mm × 950 mm; filtration volume (1 module) 10 m <sup>3</sup> /day (in the case of purified water); module + a control panel, pumps, solenoid valves, and a pressure tank are needed		
	Capabilities	Filtration capacity: starting at 10 m <sup>3</sup> /day per module. Modules can be added, making the potential capacity limitless; Filter micron rating: thread woven filter: 0.5 μm-2.0 μm; nonwoven fabric filter: 2.0 μm or more		
	Cost	In addition to the cost of the unit: delivery fee, test-run/adjustment fee, technical guidance fee		
	Life cycle	Module: 20 years (PVC models); 30 years (aluminum models) Filter: 5 years (fabric); 8 years (wound thread) * depending on water quality and use		
	Remarks	Application for the Certification of Water Treatment Equipment from the Japan Water Research Center planned for 2019		
	Pictures relating to products and technologies			
Advantages	Patent and award history	<b>■Japanese patent (issued April 2017); international patent pending</b>		
	Examples of uses (Domestic and overseas)	July 2007	Verification experiment at water treatment plant (Yokohama)	
		Aug. 2007	Verification experiment at water treatment plant (Nagano Pref.)	
		Oct. 2017	Product demonstration at Intl. Plastic Fair (Makuhari Messe - Chiba, Japan)	
		Feb. 2018	Demonstration at Kawasaki International Eco-Tech Fair 2018 (Japan)	

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<b>Business Field</b>		Sales of Filtration equipment		
<b>Company Name</b>		<b>Japan Thread Co., Ltd.</b>		
<b>Product/ Technology</b>		<b>Thread filtration system (MTG-JW, MT44P-JW, MT22P-JW)</b>		
Overview of Product/Technology	Characteristics	This filtration system is capable of removing chlorine-resistant pathogenic microorganisms, such as Cryptosporidium. The high-pressure washing function removes sedimentation from thread wound filters, which allows them to be continually used, rather than being used disposably, as is typical with filtration systems. Based on pressure detectors, jets are activated to wash away impurities and then return to the filtration process. This high-efficiency filtration system can purify water in 12 minutes. The running costs is low, as filter media needs to be replaced only once every eight years (depending on the quality of the raw water).		
	Keywords	Although Israel isn't known for making thread water filtration systems, the country's military and water processing technologies are famous. By developing sprinkler and drip irrigation technology, the country overcame its lack of water to develop its agriculture industry.		
	Price	Please consult us for prices.		
Detailed Information about Products/Technology	Details	Maximum filtration flux: 135 m <sup>3</sup> /m <sup>2</sup> /day using 3 μm filter; dimensions: 4.2 m×1.0 m×1.7 m; weight (without water): 2,100 kg; filtration pressure: 0.1 Mpa; washing pressure: 0.8 Mpa; drainage volume: approx. 5 m <sup>3</sup> each use		
	Capabilities	Filtration capacity: 3 models with capacities from 270m <sup>3</sup> /day to 2,800m <sup>3</sup> /day Filter uses 10 μm thread, and catches 99.9% of Cryptosporidium		
	Cost	Cost of the unit + delivery fee, test-run/adjustment fee, technical guidance fee		
	Life cycle	Unit: 20 years, Filter media: 10 years		
	Remarks			
	Pictures relating to products and technologies	<p style="text-align: center;"> <span>filter media</span>                      <span>cassette pack</span> </p> <p style="text-align: right;"><b>Filter media with nominal openings of 3 μm and cassette packs</b></p> <p style="text-align: center;"><b>MTG-JW (filtration volume: 2,800 m<sup>3</sup>/day, 3 μm filter)</b></p>		
Advantages	Patent and award history	<b>Certification from the Japan Water Research Center (Water Treatment, #1001)</b>		
	Examples of uses (Domestic and overseas)	<b>Public sector:</b> Aomori Prefecture; Hinoemata, Fukushima Prefecture; Hokuto city; Mihara city; Miyawaka city; Oketo township <b>Private sector:</b> Iron and steel industry, pulp manufacturers, automobile manufacturers		

Kawasaki Green Innovation Cluster Product/ Technology Information		Management Number	Section Number	Company
Business Classification	Air, Soil and Water Business			
Business Field	Sales of Filtration equipment			
Company Name	<b>Japan Thread Co., Ltd.</b>			
Product/ Technology	<b>SUMI-NAX inorganic flocculating agent</b>			
Overview of Product/Technology	Characteristics	SUMI-NAX has a large electric charge as it is a mixture of 10 types of inorganic compounds. As it is made from inorganic compounds and does not harm the human body, there is no need for worry about its effects on the human body. Its reaction is fast and the floccules do not easily break up, so they can be dehydrated by centrifugal separator or sun drying, which allows the amount of waste to be reduced.		
	Keywords	Within 2 minutes of adding SUMI-NAX to raw water, flocculation begins. The ideal pH of water to be treated is 5-7, but flocculation still occurs outside of that range. It is effective for the pretreatment of high turbidity water, such as is found in rivers and lakes throughout the world and wastewater treatment.		
	Price	350 yen/kg (delivered from the factory in Yantai, China; if incremental taxes, min. order of 20 t)		
Detailed Information about Products/ Technology	Details	It has a large electric charge from the inorganic compounds, and as the catalyst is fine particles, it even has an effect on dissolved solids to a certain extent. By using the hydroxyl group, it is even effective on substances without an electrical charge.		
	Capabilities	For kaolin solution with a turbidity of 5000 NTU, 80 ppm (80 g/m <sup>3</sup> ). 90% effective at removing arsenic, fluorine, manganese, etc. (each type of water should be treated separately)		
	Cost	Delivery fee, test-run/adjustment fee, technical guidance fee are also incurred		
	Life cycle	Use within 3 months of opening. (If placed in a humid location, it may be necessary to add a dessicant to container)		
	Remarks	SUMI-NAX is not effective on all substances; it is useful for removing suspended solids in water, but less suited for removing dissolved solids.		
	Pictures relating to products and technologies	 <p>SUMI-NAX for industrial wastewater</p>  <p>Left: Kaolin solution 5g/1ℓ (turbidity: 5000 NTU) Right: After stirring for 2 min. and letting sit 1 min.</p> <p>SUMI-NAX for general turbid water</p>		
Advantages	Patent and award history	Currently, certification from Japan Water Works Association is being processed		
	Examples of uses (Domestic and overseas)	Treatment of industrial effluent of optical lens and automobile parts manufacturers (in Japan); treatment of effluent from starch factories (Shandong, China); and a demonstration experiment on pretreating raw sewage and factory effluent is in progress (in Ulaanbaatar)		