

Dear Customers

Completion of Notch Element Production and Introduction of New Element Models

This time, we have come to the end of the production of Notch Elements (hereafter referred to as “Notch”), and we would like to inform you of this.

<Background on the Discontinuation of Production>

At our company, we have been introducing lubricating oil strainers and fuel oil strainers to numerous ships and providing corresponding “Notch”. However, recently, we have received reports from some customers of wire fraying and damage due to the use of lubricating oil strainers beyond the recommended replacement years. Considering these circumstances, to support safer and more stable ship operations for our customers, we have decided to recommend transitioning to the latest filter, the Wedge Element (hereafter referred to as “Wedge”). The “Wedge” has already been introduced by many of our customers and has received high praise for its excellent performance and reliability.

<About Displayed Filtration Accuracy>

There is still a variety of interpretations and definitions of filtration accuracy among users and manufacturers, and no industry standard definition exists. The filtration accuracy indicated on the “Notch” are currently using is based on the maximum particle size measured by the original inspection standards and does not absolutely guarantee the particle size that can be captured.

To ensure our customers can confidently use our strainers, we have established an environment within our company that allows for the development of more precise Elements. As a result, the “Wedge” we developed can now handle equal or greater flow rates and capture rates than the “Notch”.

<About Future Schedules>

The schedule for the discontinuation of “Notch” production is as follows.

Starting from April 1, 2025, once the inventory runs out, the supply of “Notch” will end.

Production End : March 31, 2025

Sales End : Until stock is depleted

Product Management Department
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About WEDGE WIRE ELEMENT

1, What is a Wedge Wire Element (WWE)?

A wedge-shaped cross-sectional wire is wound at equal intervals to form a slit (eye).

The taper angle of the adjacent triangles is wider than that of the notched wire element.

The taper angle of the adjacent triangles is wider than that of the notched wire element, allowing fluid to flow more easily.

The wide taper angle increases the backwash effect and allows for easy removal of debris.

It is possible to restore differential pressure by backwashing at low flow rates and low differential pressures.

The support rod and wire are welded at all points of contact during the manufacturing process.

Therefore, it is a high-strength element that is best suited to filter differential pressure fluctuations.

About WEDGE WIRE ELEMENT

2, Element characteristics

Compared with notched wire, it is much stronger, has lower resistance to passage, and is more effective in cleaning.
The weak point is that the space factor is small (small passing area for the same surface area).
However, it has lower transit resistance than notched wire (higher flow rate per unit area).
However, this can be fully compensated by the lower transit resistance (higher flow rate per unit area) than notched wire.

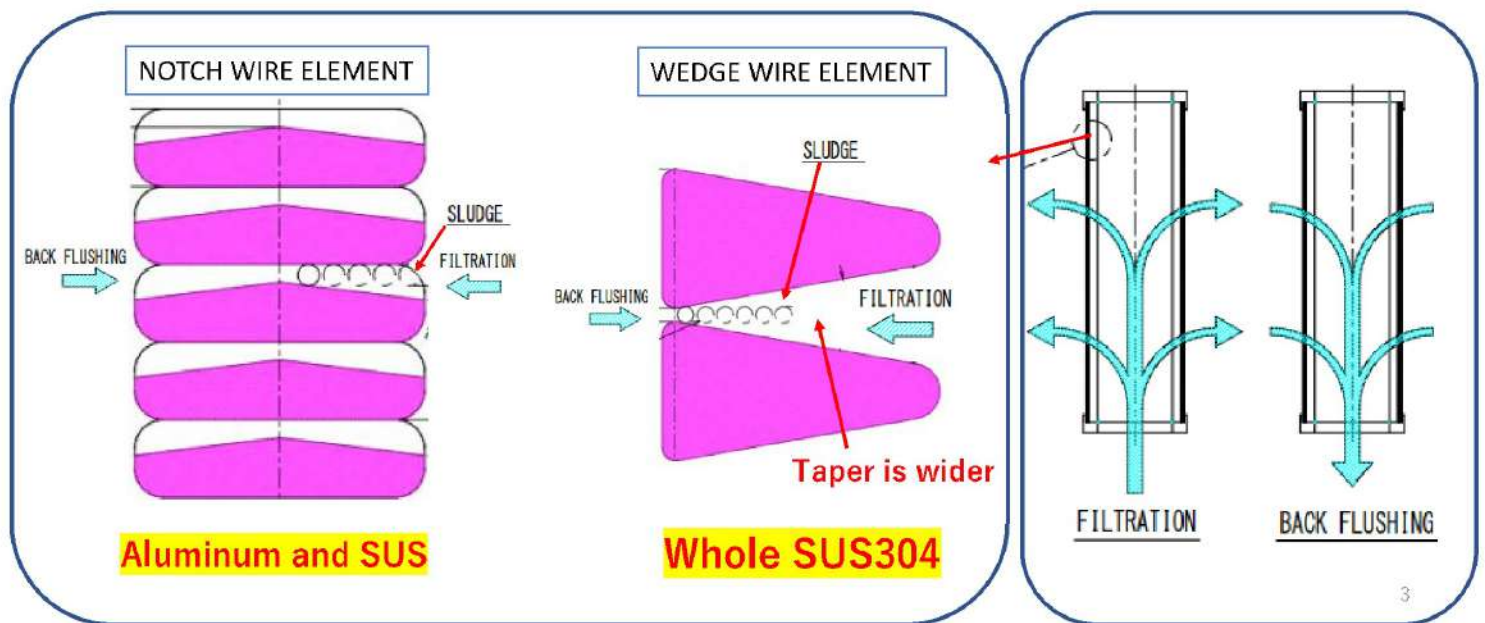
3, Material

From notched wire elements that used to be made of aluminum and SUS.
Wedge Wire Element is constructed entirely of SUS304.

2, Element characteristics

About WEDGE WIRE ELEMENT

Image of what is the difference between Notch & Wedge wire element



About WEDGE WIRE ELEMENT

2, Element characteristics

NOTCH WIRE ELEMENT



Aluminum and SUS

WEDGE WIRE ELEMENT



Whole SUS304

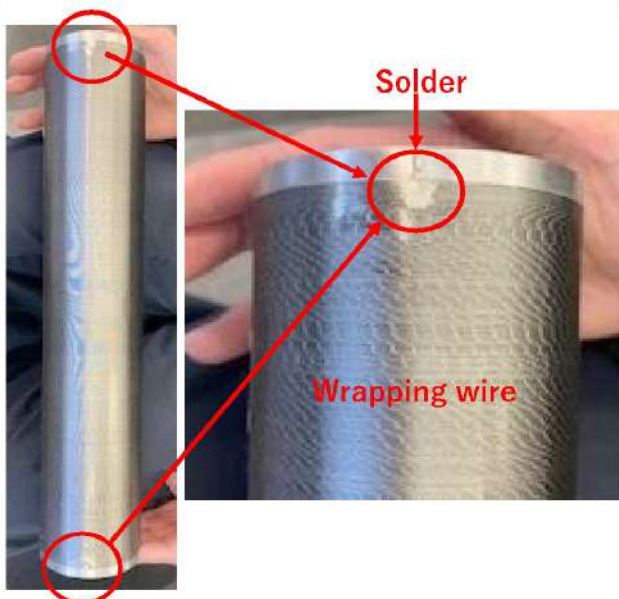


Taper is wider

2, Element characteristics

Structural differences

NOTCH WIRE ELEMENT



- Solder at the top & bottom of it.
- Wrapping wire around it.

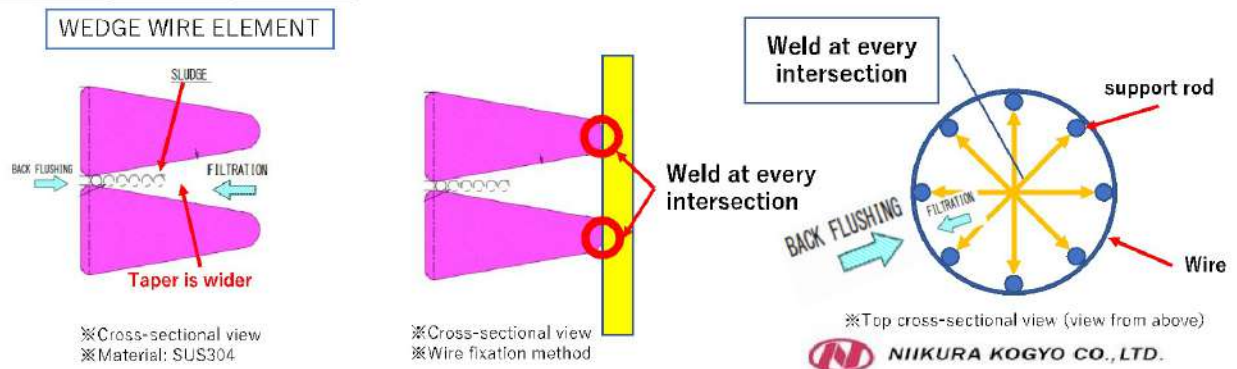
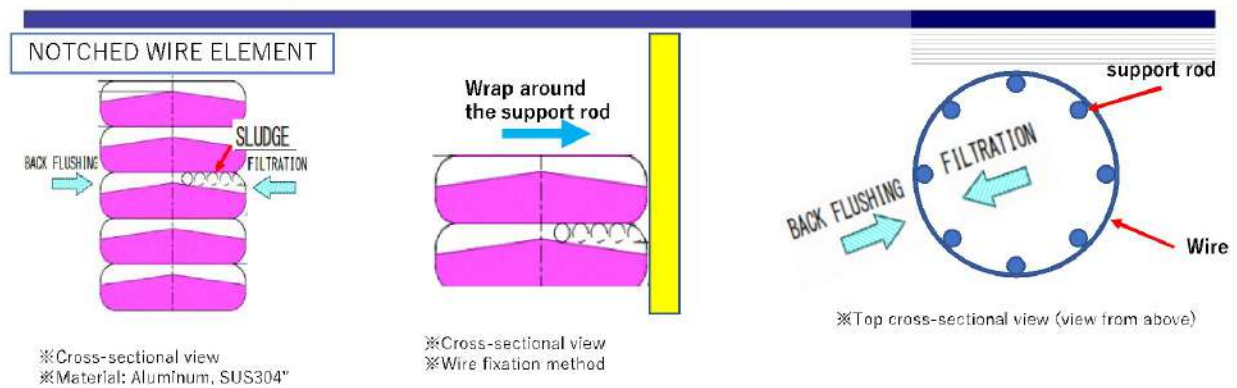
WEDGE WIRE ELEMENT



- All intersections of each wire and support rod are welded.
- The wire is much **THICKER = MORE DURABLE**.

2, Element characteristics

Structural differences



About WEDGE WIRE ELEMENT

Strength for Wedge Wire Element

- **There is almost NO RISK of FRAYING.** Wedge Wire Element is constructed entirely of SUS304. High-strength element that is best suited to filter differential pressure fluctuations. **(All intersections of each wire and support rod are welded. The wire is much THICKER = MORE DURABLE)**
- Increases the backwash effect & allows for easy removal of debris
- Restore differential pressure by backwashing at low flow rates and low differential pressures.
- **Reduce man-hour for maintenance**
- Flow more easily (Taper is wider)

“WEDGE”: Recommended replacement period: 4 to 5 years (Max. 5 years)

“NOTCH”: Recommended replacement period: 2 years
(Due to the structure, fraying and other issues may occur)

How much durable Wedge Wire Element is

Share how much durable WWE is

NOTCH WIRE ELEMENT



WEDGE WIRE ELEMENT



VS



 **YouTube**
See video the VS

