


Flexible Fluorine (ETFE) Resin SUS Spring Wire Hose (Ultra Soft Type)

[Model Number : E-SJSPUS]

Precautions for Use

 Before using HAKKO EIGHTRON products, please make sure to read following instructions in order to use HAKKO EIGHTRON products safely. HAKKO is not liable for personal injury or property damages if you do not follow the cautionary instructions below. We strongly urge you to follow these instructions. For applications that require safety consideration, please check beforehand.

① Cautions in Use

- Do not use this product in any applications that may affect life or dysfunction. (Such as applications for implanting or injecting into the body, or applications for remaining the part into the body) We do not guarantee the adaptability and safety related to these applications.
- The inner layer of E-SJSPUS is made of ETFE. Thus, E-SJSPUS shows higher levels of chemical resistance. However, depending on the kinds of chemicals, concentration and temperature, E-SJSPUS might swell or deteriorate.
Please check the chemical resistance data, listed on our product catalog and corporate website.
- Depending on the kinds of fluids, temperature and detention time, the odor of the hose might transfer to the fluid.
- This is a multi-layer hose. In terms of chemical resistance, the outer layer (PVC) is inferior to the inner layer (ETFE), so please do not soak E-SJSPUS into chemicals and contact with chemicals for a long time.
Also, depending on working environments, the fluids would be permeated through the inner layer, resulting in the danger of swelling and degradation of the middle or outer layer.
- Please comply with the use conditions mentioned in our catalog such as working pressure, temperature and minimum bend radius.
- The indicated pressure performance is based on the data of the pressure resistance test conducted by our proprietary test method (test medium is water). Depending on conditions such as the type of fluid used by the customer, working temperature, working pressure, etc., fluid leakage and hose's coming off may occur even within the written pressure range.
- The hose may expand and contract due to the contraction or internal pressure in a high temperature environment, so please provide enough space for piping.
- When pressure is applied, operate the valve slowly in order not to develop impact pressure, which might cause the rupture of the hose.
- Hoses should not be used below the minimum bend radius. If you use the hoses below the minimum bend radius, hoses may be folded or the pressure resistance might go down.
- Please do not bend extremely near the fittings. This leads to the damage of the hose.
- Please do not apply unreasonable force such as kinking and pulling to the hoses. This results in the bursting of the hose or coming off from the fittings.
- Please do not pull or drag the hoses. This damages the surface of the hose, leading to having a hole onto the hose and bursting.
- Please do not bring the hoses close to fire or heat sources.
- Please do not place heavy weight on hoses. Hoses should not be running over by vehicles.
- Please do not make scratches on the hoses with cutters or knives.
- Be sure to check the chemical resistance data in the catalog before using the hose.
If you have any questions or need more information, please feel free to contact us.
- When using for the first time after purchasing for food use, be sure to clean the inside of the hose before using. Clean our E-SJSPUS at 80°C or below within 30 minutes without any pressure. After cleaning, thoroughly check the condition of the hoses and fittings before use.

② Cautionary Instructions on How to Cut Hose/Hose and Assemble with Fittings

- In cutting the hose, the cross-section must be perpendicular.
- In cutting the hose, the steel wire might stick out at the cross-section of the hose.
Please be careful not to get hurt on your hands. When the spring wire sticks out, cut it off neatly with a nipper.
- E-SJSPUS does not eliminate the electricity which has already been charged to the fluid. Please make sure to take another approach to eliminate the electricity which has already been charged to the fluid.
- Please make sure to ground the stainless steel wire. Without grounding the stainless steel wire, the stainless steel wire will become suspended conductors to accumulate and discharge static electricity, resulting in danger of causing fire.
- For hose fittings, please use HAKKO original fittings [EIGHTLOCK Series] and [EIGHTNIPPLE Series]. Unavoidably, if you use the joints other than HAKKO original fittings, please use the joints to seal an inner surface of the hose.
For more information on HAKKO original fittings, please take a look at general catalog and our corporate website.
- Do not use fittings to seal on the outer surface of the hose.
- Please use the fitting, which its nipple mountain part has R.
- Please do not use the fittings which have scratches or rust on the surface of the nipple. Inner surfaces of the hose may be damaged and it may cause the hose to rupture or leak. Please use the flat hose clamps required for the hose specifications.
Please do not use wires or do not tighten excessively with wires. It may cause the hoses to rupture or leak.
- Tighten the hose band with the specified tightening torque.
- The hose softens at high temperatures, so tighten the hose band more (tighten) and fix it firmly.
- When the nipple of the fitting is inserted into the hose, do not apply oil on the hose and nipple or do not warm them with fire.
It may cause the hose to come off or change its shape.
- Insert the nipple of the fitting into the end of the hose until it seals against the thread base. If the nipple is not inserted adequately, the hose may come off.
- Please choose the hose nipples which are suitable for hose sizes.
- When crimping with a commercially available joint, the inner layer may crack and fluid leakage may occur.
If you are looking for a crimped product of a multi-layer hose, please contact us.

③ Cautions in Maintenance and Inspection

- Hoses are greatly affected by use conditions and environments. In case hoses are used outdoor, the surface of the hoses will be damaged and the quality will deteriorate quickly, compared with ones used indoor. The conditions of the hoses and fittings should be inspected regularly. If something unusual things listed below occur, stop using the hoses immediately and replace them with new ones:
- Appearance Abnormality-----Tear, Scratches, Swelling, Crack, Curve, Deformation.
 - The Bursting of Inner or/and Outer Layers of the Hoses, Hardening, Dramatic Change in Color, Leaking Fluids and Exposed reinforcement wire.

④ Cautions in Storing

- Please do not directly contact with rubber products such as rubber hose and rubber board. This causes the hose to change in color, transfer the components, and swell the hoses.
- In case the hoses are stored, get rid of remaining fluids inside the hoses, clean up any dusts on the surface of the hose and avoid twisting/holding the hoses.
- Please do not store the hose under the extremely bended conditions.
- Please store the hose on the flat, smooth surfaces; otherwise, hoses may change its shape.
- Please store at room temperature with low humidity indoors to avoid exposure to direct sunlight, wind or rain. If the product is left outdoors or stored in a high-temperature environment, it may cause discoloration, deterioration or changes in length and inside/outside diameter.
- Please store the hose without having foreign matters and dusts inside the hose.
- Please do not pile up the hoses in large quantity.

⑤ About the Numerical Value of Working Pressure

- The working pressures listed in the catalog and our website are the values for "EIGHTLOCK Series" and "EIGHTNIPPLE Series with Two Tridon Clamps".
※ The clamp tightening torque is the maximum torque recommended by the hose clamp manufacturer.
- Depending on the specifications of the fittings, working pressure might go down.

⑥ In case of Disposing

- In case of disposing, follow the local governmental regulations.

For Your Inquiries and/or Questions

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