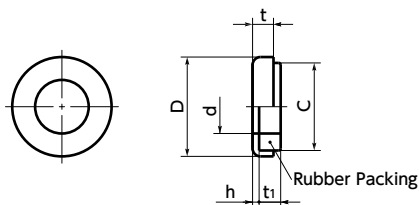




SWS Seal Washers

SUS Stainless steel



● Material/Finish



	SWS	SWS-F	SWS-E	SWS-S
Main Body	SUS304	SUS304	SUS304	SUS304
Rubber Packing	NBR	Fluoro-rubber	EPDM	Silicone rubber



- Seal washer incorporating rubber packing in a stainless steel washer.
- Prevents air/liquid leakage from the seating surface of the screw head. Test results for JIS C 0920 protection degree IPX7 are available on the NBK website.
- During screw tightening, the rubber bonds with the screw thread to make the seal rather than slipping out of place.
- Four types of material are used in the rubber packing. They can be selected by the end symbol of the part number.

Part Number	Rubber Packing Material	Characteristics	Heat Resistance Temperature
SWS	NBR	Standard	80°C
SWS-F	Fluoro-rubber	Chemical-proof/heat-resistance/ozone resistance	200°C
SWS-E	EPDM	Weather resistance/water resistance/ozone resistance	120°C
SWS-S	Silicone rubber	Heat-resistance/cold-resistance/electrical insulation	180°C

- Values in chart are for reference only. They are not guaranteed values.

● Application

Seal ring
Oil hydraulic equipment / Pneumatic device

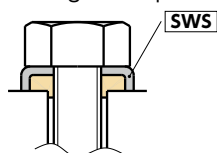
SWS Rubber Packing: NBR **SWS-F** Rubber Packing: Fluoro-Rubber

SWS-E Rubber Packing: EPDM **SWS-S** Rubber Packing: Silicone Rubber

Part Number NBR	Part Number Fluoro-rubber	Part Number EPDM	Part Number Silicone Rubber	Nominal	d	D	h	t	t ₁	C	Mass (g)	Qty per Pack
SWS-3	SWS-3-F	SWS-3-E	SWS-3-S	3	3.2	7	0.5	2.2	2.2	6.3	0.2	10
SWS-4	SWS-4-F	SWS-4-E	SWS-4-S	4	4.2	8	0.5	2.1	2	7.2	0.2	10
SWS-5	SWS-5-F	SWS-5-E	SWS-5-S	5	5.2	9.6	0.8	2.7	2.5	8.2	0.6	10
SWS-6	SWS-6-F	SWS-6-E	SWS-6-S	6	6.2	11.5	1	2.9	2.5	9.6	1	10
SWS-8	SWS-8-F	SWS-8-E	SWS-8-S	8	8.2	15.3	1	3.1	3	13.5	1.8	5
SWS-10	SWS-10-F	SWS-10-E	SWS-10-S	10	10.4	18	1.5	4	3.8	15.1	3.2	5
SWS-12	SWS-12-F	SWS-12-E	SWS-12-S	12	14	24	1.5	5	5	21.3	6.6	5
SWS-16	SWS-16-F	SWS-16-E	SWS-16-S	16	18.8	30	2	5.3	4.8	26.4	11	5

- When purchasing less volume than one full bag, a separate handling fee is charged. For details, see the Sold Separately Service.

● Usage example



- Part number specification

SWS-10-F



Individual Sales → P.0000	Cleanroom Wash & Packaging → P.0000	Screw Length Adjustment → P.0000	Vibration Resistant → P.0000	Modification process for captive use → P.0000
Available / Add'l charge	Please feel free to contact us	Not Available	Not Available	Not Available