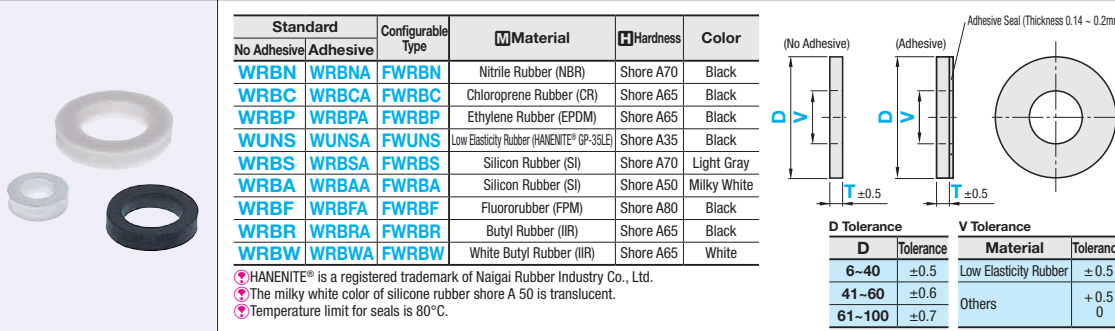


Rubber Washers

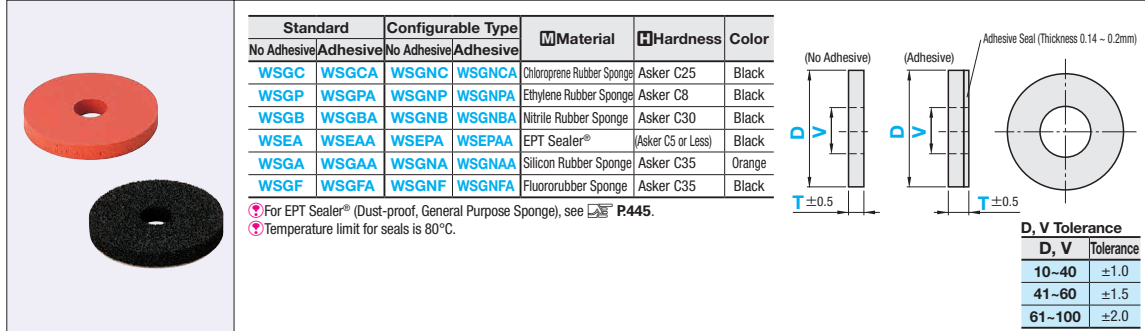
Sponge Washers



Standard		Configurable Type	Material	Hardness	Color
No Adhesive	Adhesive				
WRBN	WRBNA	FWRBN	Nitrile Rubber (NBR)	Shore A70	Black
WRBC	WRBCA	FWRBC	Chloroprene Rubber (CR)	Shore A65	Black
WRBP	WRBPA	FWRBP	Ethylene Rubber (EPDM)	Shore A65	Black
WUNS	WUNSA	FWUNS	Low Elasticity Rubber (HANENITE® GP-35LE)	Shore A35	Black
WRBS	WRBSA	FWRBS	Silicon Rubber (SI)	Shore A70	Light Gray
WRBA	WRBAA	FWRBA	Silicon Rubber (SI)	Shore A50	Milky White
WRBF	WRBFA	FWRBF	Fluororubber (FPM)	Shore A80	Black
WRBR	WRBRA	FWRBR	Butyl Rubber (IIR)	Shore A65	Black
WRBW	WRBWA	FWRBW	White Butyl Rubber (IIR)	Shore A65	White

* HANENITE® is a registered trademark of Naigai Rubber Industry Co., Ltd.
 * The milky white color of silicone rubber shore A 50 is translucent.
 * Temperature limit for seals is 80°C.

D Tolerance		V Tolerance	
D	Tolerance	Material	Tolerance
6-40	±0.5	Low Elasticity Rubber	±0.5
41-60	±0.6	Others	+0.5
61-100	±0.7		0



Standard		Configurable Type	Material	Hardness	Color
No Adhesive	Adhesive				
WSGC	WSGCA	WSGNC	Chloroprene Rubber Sponge	Asker C25	Black
WSGP	WSGPA	WSGNP	Ethylene Rubber Sponge	Asker C8	Black
WSGB	WSGBA	WSGNB	Nitrile Rubber Sponge	Asker C30	Black
WSEA	WSEAA	WSEPA	EPT Sealer®	(Asker C5 or Less)	Black
WSGA	WSGAA	WSGNA	Silicon Rubber Sponge	Asker C35	Orange
WSGF	WSGFA	WSGNF	Fluororubber Sponge	Asker C35	Black

* For EPT Sealer® (Dust-proof, General Purpose Sponge), see [LINK](#) P.445.
 * Temperature limit for seals is 80°C.

D, V Tolerance		
D, V	Tolerance	
10-40	±1.0	
41-60	±1.5	
61-100	±2.0	

Rubber Washer Standard Type (No Adhesive)

Part Number Type	D	V Selection	T Selection	Unit Price								
				WRBN	WRBC	WRBP	WUNS	WRBS	WRBA	WRBF	WRBR	WRBW
WRBN WRBC WRBP WUNS WRBS WRBA WRBF WRBR WRBW	6	2	1 2 3									
	8	2 3 4	1 2 3									
	10	3 4 5 6	1 2 3 5									
	12	4 5 6 8	1 2 3 5									
	15	4 5 6 8 10	1 2 3 5									
	20	5 6 8 10 12	3 5									
	25	5 6 8 10 12 16 20	3 5									
	30	5 6 8 10 12 16 20	3 5									
	35	8 10 12 16 20 25	5									
	40	8 10 12 16 20 25 30	5									
	50	8 10 12 16 20 25 30	5									
60	12 16 20 25 30 40	5										

Rubber Washer Standard Type (Adhesive)

Part Number Type	D	V Selection	T Selection	Unit Price								
				WRBNA	WRBCA	WRBPA	WUNSA	WRBSA	WRBAA	WRBFA	WRBRA	WRBWA
WRBNA WRBCA WRBPA WUNSA WRBSA WRBAA WRBFA WRBRA WRBWA	6	2	1 2 3									
	8	2 3 4	1 2 3									
	10	3 4 5 6	1 2 3 5									
	12	4 5 6 8	1 2 3 5									
	15	4 5 6 8 10	1 2 3 5									
	20	5 6 8 10 12	3 5									
	25	5 6 8 10 12 16 20	3 5									
	30	5 6 8 10 12 16 20	3 5									
	35	8 10 12 16 20 25	5									
	40	8 10 12 16 20 25 30	5									
	50	8 10 12 16 20 25 30	5									
60	12 16 20 25 30 40	5										

Rubber Washer Configurable Type (No Adhesive)

Part Number Type	D	1mm Increment V	T	Unit Price									
				FWRBN	FWRBC	FWRBP	FWUNS	FWRBS	FWRBA	FWRBF	FWRBR	FWRBW	
FWRBN FWRBC FWRBP FWUNS FWRBS FWRBA FWRBF FWRBR FWRBW	6-15	0 (No Hole) 2-39 (V<D-6)	1-5										
	16-30		6-10										
			1-5										
	31-45	6-10											
		1-5											
	46-60	6-10	0 (No Hole) 10-70 (V<D-6)	1-5									
6-10													
61-80	1-5												
	6-10												
81-100	1-5	0 (No Hole) 20-80 (V<D-6)	6-10										
	6-10												

* When V=0, there is no hole.

Standard
 Ordering Example: Part Number - V - T
 WUNS20 - 10 - 5

Configurable Type
 Ordering Example: Part Number - D - V - T
 FWUNS - D19 - V3 - T5

Standard Type (No Adhesive)

Part Number Type	D	V Selection	T Selection	Unit Price							
				WSGC	WSGP	WSGB	WSEA	WSGA	WSGF		
WSGC WSGP WSGB WSEA WSGA WSGF	6	2	3								
	8	2 3 4	3								
	10	3 4 5 6	3 5								
	12	4 5 6 8	3 5								
	15	4 5 6 8 10	3 5								
	20	5 6 8 10 12	3 5 10								
	25	5 6 8 10 12 16 20	3 5 10								
	30	5 6 8 10 12 16 20	3 5 10								
	35	8 10 12 16 20 25	5 10								
	40	8 10 12 16 20 25 30	5 10								
	50	8 10 12 16 20 25 30	5 10								
60	12 16 20 25 30 40	5 10									

Standard Type (Adhesive)

Part Number Type	D	V Selection	T Selection	Unit Price							
				WSGCA	WSGPA	WSGBA	WSEAA	WSGAA	WSGFA		
WSGCA WSGPA WSGBA WSEAA WSGAA WSGFA	6	2	3								
	8	2 3 4	3								
	10	3 4 5 6	3 5								
	12	4 5 6 8	3 5								
	15	4 5 6 8 10	3 5								
	20	5 6 8 10 12	3 5 10								
	25	5 6 8 10 12 16 20	3 5 10								
	30	5 6 8 10 12 16 20	3 5 10								
	35	8 10 12 16 20 25	5 10								
	40	8 10 12 16 20 25 30	5 10								
	50	8 10 12 16 20 25 30	5 10								
60	12 16 20 25 30 40	5 10									

Configurable Type

The unit price of Configurable Type "No Adhesive" is shown in the table below.

Part Number Type (xMaterial Multiplier)	T	T Tolerance	D 1mm Increment	V 1mm Increment	Unit Price					
					D10-20	D21-40	D41-60	D61-80	D81-100	
WSGNC (x1.0) WSGNP (x1.0) WSGNB (x1.0) WSEPA (x1.0)	3	±0.5	10-100	0 (No Hole) 5-30 * When D≤40, D-V:5 When D>40, D-V:8						
	5									
	8									
	10				±1					
WSGNA (x1.0) WSGNAA (x1.2)	3	±0.5								
	5									
	8				±1.5					
10										
WSGNF (x1.0) WSGNFA (x1.2)	2	±0.5								
	3				±1.5					
	5									
10										

Standard
 Ordering Example: Part Number - V - T
 WSGPA15 - 6 - 5

Configurable Type
 Ordering Example: Part Number - D - V
 WSGNA3 - D12 - V6