

# NEOPRENE POLYMER FLAT WASHERS

**NEOPRENE POLYMER** is highly resistant to sun, ozone, weathering and aging. It performs well when exposed to oils, fuels and other chemicals. Washers made from this material are mainly used to prevent leaks and distribute pressure. **SILICONE RUBBER** washers are included in the following charts. This material

provides a combination of high strength, resilience, toughness, stability at high temperature ranges and resistance to a multitude of chemical elements. **METAL BONDED-Polymer** washers, bonded to Steel and Stainless Steel Conical Washers, are also available.

Screw Size	Nominal Dimensions			Alternate Part Number
	I.D.	O.D.	Thick	
1	.086	.329	.031	
2	.090	.200	.031	
3	.105	.250	.031	NAS1515-02L
3	.105	.250	.062	NAS1515-02
4	.125	.218	.020	70 SHORE
4	.125	.312	.031	NAS151-04L
4	.125	.312	.062	NAS151-04
4	.125	.500	.125	
4	.125	1.000	.062	
5	.140	.375	.032	
5	.145	.375	.062	
5	.145	.390	.062	NEOPRENE
6	.149	.375	.031	NAS151-06L
6	.149	.375	.062	NAS151-06
6	.149	.385	.031	
6	.149	.645	.031	
6	.149	.645	.062	
6	.155	.645	.042	
6	.160	.405	.071	
6	.165	.875	.125	
8	.174	.375	.031	NAS151-08L
8	.174	.375	.062	NAS151-08
8	.174	.440	.062	
8	.174	.440	.100	
8	.174	.515	.031	NEOPRENE
8	.180	.510	.031	
8	.180	.875	.075	
8	.187	.312	.062	
8	.187	.375	.031	50-14-1-6-3
8	.187	.500	.062	50-14-2-6-4
10	.203	.438	.031	NAS1515-D3L
10	.203	.438	.062	NAS1515-3
10	.203	.438	.094	NAS1515-3H
10	.203	.555	.062	
10	.203	.750	.125	
10	.218	1.000	.031	51-14-1-7-8
10	.220	.600	1.250	SPACER
12	.250	.345	.125	
12	.240	.500	.125	
1/4	.250	.500	.062	
1/4	.250	.500	.094	50-14-3-8-4
1/4	.250	.555	.125	

Screw Size	Nominal Dimensions			Alternate Part Number
	I.D.	O.D.	Thick	
1/4	.250	.625	.094	NEOPRENE
1/4	.250	1.000	.125	50-14-4-8-8
1/4	.265	.500	.031	NAS1515-4L
1/4	.265	.500	.062	NAS1515-4
1/4	.265	.500	.094	NAS1515-4H
1/4	.265	.687	.125	
1/4	.281	.500	.125	50-14-4-9-4
1/4	.281	.750	.125	BACW10P15R80
5/16	.312	.500	.062	
5/16	.312	.875	.094	SILICON RUBBER
5/16	.328	.562	.031	NAS1515-5L
5/16	.328	.562	.062	NAS1515-5
5/16	.328	.562	.094	NAS1515-5H
5/16	.342	1.625	.063	
5/16	.358	.825	.073	
3/8	.385	.750	.031	
3/8	.385	.750	.073	
3/8	.390	.625	.031	NAS1515-6L
3/8	.390	.625	.062	NAS1515-6
3/8	.390	.625	.094	NAS1515-6H
3/8	.390	1.105	.031	
3/8	.396	.615	.051	NEOPRENE
3/8	.430	.875	.125	
3/8	.435	.625	.105	
3/8	.435	.812	.062	
7/16	.453	.750	.031	NAS1515-7L
7/16	.453	.750	.062	NAS1515-7
7/16	.453	.750	.093	NAS1515-7H
7/16	.468	.875	.062	50-14-2-15-7
7/16	.485	.828	.250	
1/2	.500	.688	.062	SILICON SPONGE
1/2	.500	.750	.031	
1/2	.500	.750	.125	
1/2	.500	1.125	.125	
1/2	.500	1.500	.093	50-14-3-16-12
1/2	.500	2.000	.093	131CY
1/2	.515	.875	.031	NAS1515-8L
1/2	.515	.875	.062	NAS1515-8
1/2	.515	.875	.094	NAS1515-8H
1/2	.525	.600	.050	
1/2	.525	.700	.062	BACW10P8R40
1/2	.525	1.135	.140	

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Screw Size	Nominal Dimensions			Alternate Part Number
	I.D.	O.D.	Thick	
1/2	.545	.935	.062	COMP ASB
9/16	.578	1.062	.031	BACW10DPL916
9/16	.578	1.062	.062	NAS1515-9
9/16	.578	1.062	.094	NAS1515-9H
5/8	.625	.750	.062	
5/8	.640	1.188	.031	NAS1515-10L
5/8	.640	1.188	.062	NAS1515-10
5/8	.640	1.188	.094	NAS1515-10H
3/4	.750	.950	.062	
3/4	.765	1.312	.031	NAS1515-12L

Screw Size	Nominal Dimensions			Alternate Part Number
	I.D.	O.D.	Thick	
3/4	.765	1.312	.062	NAS1515-12
3/4	.765	1.312	.094	NAS1515-12H
7/8	.812	1.210	.092	
7/8	.875	1.125	.062	50-14-2-28-9
7/8	.890	1.500	.062	NAS1515-14
1"	1.000	2.250	.125	50-14-4-32-18
1"	1.015	1.750	.062	NAS1515-16
1"	1.110	1.562	.125	
1-5/16	1.312	1.750	.062	50-14-2-42-14

## INSULATING FIBRE FLAT WASHERS

**FIBRE WASHERS** are made from insulating papers and boards such as: Vulcanized Fibre Boards, Fish Paper, High Density Bone, Rag Paper, etc. Commercial grade fibre per ASTM D710 is used in most of WCL's standard fibre washers. Washers are also available in Gasket materials as well as Duroids® and Friction Boards.

**NAS549** washers, most frequently used for electrical insulating, are made from fiber per MIL-F-1148 Grade CH form S. Other materials of this type are listed in the Phenolic washer section on page 36.

The suffix-"F" designates thrust washers most commonly used in electrical motors and plumbing applications.

**NAS70** washers shown here are made from vulcanized - grade CH form S. The DIN Standards are made of pressboard material.

**Other Part Numbers** - Non-government part numbers shown represent some of the many industry standards in use today.

Screw Size	Nominal Dimensions			Alternate Part Number
	I.D.	O.D.	Thick	
0	.057	.444	.062	
0	.062	.251	.031	5602-51-32
0	.063	.312	.031	
M2	.086	.196	.011	DIN125A
2	.089	.203	.031	
2	.090	.220	.031	5602-201-32
2	.090	.250	.031	5602-1-32
2	.091	.285	.031	
2	.092	.321	.031	WHT
2	.093	.158	.031	5602-53-32
2	.093	.187	.031	F-2, BLK, RED
2	.093	.234	.016	RED
2	.093	.593	.062	XP
2	.098	.187	.031	
2	.098	.187	.047	
2	.098	.187	.062	
M2.3	.098	.236	.020	DIN125A
2	.098	.250	.031	NAS70V099-250
2	.098	.250	.047	

Screw Size	Nominal Dimensions			Alternate Part Number
	I.D.	O.D.	Thick	
2	.098	.250	.062	
2	.098	.312	.031	
2	.098	.312	.047	
2	.098	.312	.062	
M2.5	.105	.250	.020	DIN125A
3	.105	.250	.031	NAS549-FL3
3	.105	.250	.062	NAS549-F3
3	.110	.250	.031	GRY, BLK, RED
3	.110	.250	.017	5602-9-17
3	.110	.250	.062	5602-9-62
M2.6	.110	.275	.020	DIN125A
3	.110	.600	.062	GRY
4	.115	.200	.016	5602-58-16-BLK
4	.115	.220	.032	BLK, BRN
4	.115	.250	.017	BLK
4	.115	.250	.031	5602-9-32
4	.115	.250	.062	5602-9-62
4	.120	.218	.031	5602-60-32
4	.120	.250	.027	RED