

PHENOLIC FLAT WASHERS

PHENOLIC WASHERS are stamped from various industrial laminates, such as Paper, Canvas, Linen, Glass Grades G-3, G-5, G-7, G-9 G-10 and G-11, and Glass Polyester - GPO 1, 2, and 3. These washers are laminated in several grades, including XP, Conolite, CEXXXP, CEF, LE, XXP and others, usually in the material color or black.

NAS549 electrical insulating washers are available in a variety of material: Fibre (F), Paper Phenolic (-), three types of Cotton Phenolic - FBM (M), FBG (B), FBE (E), Glass Melamine - GMF (P), and Glass Epoxy - GEB (G).

Screw Size	Nominal Dimensions			Alternate Part Number
	I.D.	O.D.	Thick	
1	.078	.240	.031	XP&CE
2	.093	.593	.062	XP-NAT
2	.094	.187	.031	XP-NAT
2	.094	.250	.016	EPOXY
2	.099	.250	.031	NAS70P099-250
3	.105	.250	.016	G-5
3	.105	.250	.031	NAS549-L3
3	.105	.250	.062	NAS549-3
3	.105	.312	.031	CEM
4	.115	.250	.031	CE-NAT
4	.115	.308	.071	
4	.115	.750	.062	GL
4	.120	.265	.125	
4	.121	.218	.016	GL
4	.121	.218	.063	GL
4	.125	.218	.016	
4	.125	.312	.031	NAS549-L4
4	.125	.312	.063	NAS549-4
4	.125	.375	.031	GL
4	.125	.625	.063	GL
4	.125	.625	.063	GL
4	.130	.420	.031	BACW10P303L
4	.136	.375	.068	
6	.140	.250	.031	GL
6	.140	.312	.031	CEF
6	.140	.330	.031	BACW10P37L
6	.144	.375	.031	NAS70P144-375
6	.147	.312	.045	
6	.147	.440	.031	
6	.149	.375	.031	NAS549-L6
6	.149	.375	.063	NAS549-6
6	.150	.500	.031	
6	.155	.250	.063	PHEN & GLS
6	.156	.375	.031	
8	.170	.375	.093	
8	.170	.500	.045	XP-NAT
8	.170	.688	.062	
8	.170	.875	.062	
8	.172	.375	.031	XP-NAT, CE
8	.174	.375	.031	NAS549-L8
8	.174	.375	.062	NAS549-8
8	.177	.375	.031	NAS70P177-375

Screw Size	Nominal Dimensions			Alternate Part Number
	I.D.	O.D.	Thick	
8	.180	.465	.062	
8	.190	.500	.045	CE-NAT
8	.190	.640	.031	
8	.195	.440	.031	GLS
10	.196	.385	.020	XP-NAT
10	.203	.438	.031	NAS549-L10
10	.203	.438	.062	NAS549-10
10	.203	.500	.062	
10	.209	.438	.031	NAS70P209-438
10	.235	.550	.015	NAT
1/4	.250	.440	.031	BRN & BLK
1/4	.250	.625	.031	
1/4	.250	.750	.031	
1/4	.252	.437	.031	CE-NAT, CE-BLK
1/4	.252	.500	.031	XP & CE
1/4	.255	.375	.062	CE-NAT
1/4	.255	.515	.063	GLS
1/4	.260	.505	.031	GLS
1/4	.261	1.500	.031	NAS70P261-1500
1/4	.265	.500	.031	NAS549-L416
1/4	.265	.500	.062	NAS549-416
1/4	.265	.750	.031	
5/16	.313	.500	.031	CEF
5/16	.328	.563	.031	NAS549-L516
5/16	.328	.563	.031	NAS70P328-563
5/16	.328	.563	.063	NAS549-516
5/16	.340	.812	.063	
5/16	.340	.520	.015	BACW10P273L
5/16	.340	1.120	.031	BACW10P240L
5/16	.340	1.120	.063	BACW10P242L
3/8	.375	1.750	.063	
3/8	.375	1.250	.031	GL
3/8	.380	.645	.020	XP
3/8	.385	1.250	.063	
3/8	.390	.625	.031	NAS549-L616
3/8	.390	.625	.063	NAS70P390-625
3/8	.390	.625	.063	NAS549-616
3/8	.390	.625	.094	NAS549-H616
7/16	.453	.750	.031	NAS549-L716
7/16	.453	.750	.063	NAS70P453-750
7/16	.468	.800	.094	50-21-8
1/2	.468	.800	.094	CE-NAT1/2

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Screw Size	Nominal Dimensions			Alternate Part Number
	I.D.	O.D.	Thick	
	.515	.875	.031	NAS549-L816
1/2	.515	.875	.063	NAS549-816
1/2	.515	.875	.063	NAS70P515-875
1/2	.515	.875	.094	NAS549-H816
1/2	.515	1.000	.062	CE-NAT, F-56
9/16	.565	1.125	.062	CE-NAT, F-57
9/16	.578	1.062	.031	NAS549-L916
9/16	.578	1.062	.062	NAS549-916
5/8	.630	.937	.031	XP
5/8	.630	1.125	.062	CE-NAT, F-58

Screw Size	Nominal Dimensions			Alternate Part Number
	I.D.	O.D.	Thick	
5/8	.640	1.188	.031	NAS549-L1016
5/8	.640	1.188	.062	NAS549-1016
5/8	.640	1.188	.094	NAS549-H1016
5/8	.688	1.250	.093	CE-NAT, F-60
3/4	.750	1.130	.031	PLN
3/4	.754	1.250	.062	CE-NAT, F-61
3/4	.765	1.312	.031	NAS549-L1216
3/4	.765	1.312	.032	NAS549-1216
7/8	.937	1.500	.062	PLN
1-1/4	1.270	1.880	.062	BACW10P27L



Non - Metallic Flat Washers