

STANDARD SPECIFICATION FOR WOVEN WIRE TEST SIEVE CLOTH AND TEST SIEVES

ASTM E 11 - 09

Nominal Dimensions and Permissible Variations for Sieve Cloth and Compliance, Inspection and Calibration Test Sieves

(1)		(2)	(3)	(4)	(5)	(6)	(13)	(14)	(15)
Sieve Designation		Nominal Sieve Opening (in.)	$\pm Y$ Variation for Average Opening	$+ X$ Maximum Variation for Opening	Resulting Maximum Individual Opening	Typical Wire Diameter	Permissible Range of Choice		
Standard	Alternative						Min	Max	
millimeter		inches	millimeter	millimeter	millimeter	millimeter			
125	5 in.	5	3.66	4.51	129.51	8	6.8	9.2	
106	4.24 in.	4.24	3.12	3.99	109.99	6.3	5.4	7.2	
100	4 in.	4	2.94	3.82	103.82	6.3	5.4	7.2	
90	3 1/2 in.	3.5	2.65	3.53	93.53	6.3	5.4	7.2	
75	3 in.	3	2.22	3.09	78.09	6.3	5.4	7.2	
63	2 1/2 in.	2.5	1.87	2.71	65.71	5.6	4.8	6.4	
53	2.12 in.	2.12	1.58	2.39	55.39	5	4.3	5.8	
50	2 in.	2	1.49	2.29	52.29	5	4.3	5.8	
45	1 3/4 in.	1.75	1.35	2.12	47.12	4.5	3.8	5.2	
37.5	1 1/2 in.	1.5	1.13	1.85	39.35	4.5	3.8	5.2	
31.5	1 1/4 in.	1.25	0.95	1.63	33.13	4	3.4	4.6	
26.5	1.06 in.	1.06	0.802	1.44	27.94	3.55	3	4.1	
25	1.00 in.	1	0.758	1.38	26.38	3.55	3	4.1	
22.4	7/8 in.	0.875	0.681	1.27	23.67	3.55	3	4.1	
19	3/4 in.	0.750	0.579	1.13	20.13	3.15	2.7	3.5	
16	5/8 in.	0.625	0.490	0.99	16.99	3.15	2.7	3.6	
13.2	0.530 in.	0.530	0.406	0.86	14.06	2.8	2.4	3.2	
12.5	1/2 in.	0.500	0.385	0.83	13.33	2.5	2.1	2.9	
11.2	7/16 in.	0.438	0.346	0.77	11.97	2.5	2.1	2.9	
9.5	3/8 in.	0.375	0.295	0.68	10.18	2.24	1.9	2.6	
8	5/16 in.	0.312	0.249	0.60	8.60	2	1.7	2.3	
6.7	0.265 in.	0.265	0.210	0.53	7.23	1.8	1.5	2.1	
6.3	1/4 in.	0.250	0.197	0.51	6.81	1.8	1.5	2.1	
5.6	No. 3 1/2	0.223	0.176	0.47	6.07	1.6	1.3	1.9	
4.75	No. 4	0.187	0.150	0.41	5.16	1.6	1.3	1.9	
4	No. 5	0.157	0.127	0.37	4.37	1.4	1.2	1.7	
3.35	No. 6	0.132	0.107	0.32	3.67	1.25	1.06	1.5	
2.8	No. 7	0.110	0.090	0.29	3.09	1.12	0.95	1.3	
2.36	No. 8	0.0937	0.076	0.25	2.61	1	0.85	1.15	
2	No. 10	0.0787	0.065	0.23	2.23	0.9	0.77	1.04	
1.7	No. 12	0.0661	0.056	0.20	1.90	0.8	0.68	0.92	
1.4	No. 14	0.0555	0.046	0.18	1.58	0.71	0.6	0.82	
1.18	No. 16	0.0469	0.040	0.16	1.34	0.63	0.54	0.72	
1	No. 18	0.0394	0.034	0.14	1.14	0.56	0.48	0.64	
micrometer		inches	micrometer	micrometer	micrometer	millimeter			
850	No. 20	0.0331	29.1	127	977	0.5	0.43	0.58	
710	No. 25	0.0278	24.7	112	822	0.45	0.38	0.52	
600	No. 30	0.0234	21.2	101	701	0.4	0.34	0.46	
500	No. 35	0.0197	18.0	89	589	0.315	0.27	0.36	
425	No. 40	0.0165	15.5	81	506	0.28	0.24	0.32	
355	No. 45	0.0139	13.3	72	427	0.224	0.19	0.26	
300	No. 50	0.0117	11.5	65	365	0.2	0.17	0.23	
250	No. 60	0.0098	9.9	58	308	0.16	0.13	0.19	
212	No. 70	0.0083	8.7	52	264	0.14	0.12	0.17	
180	No. 80	0.0070	7.6	47	227	0.125	0.106	0.15	
150	No. 100	0.0059	6.6	43	193	0.1	0.085	0.115	
125	No. 120	0.0049	5.8	38	163	0.09	0.077	0.104	
106	No. 140	0.0041	5.2	35	141	0.071	0.06	0.082	
90	No. 170	0.0035	4.6	32	122	0.063	0.054	0.072	
75	No. 200	0.0029	4.1	29	104	0.05	0.043	0.058	
63	No. 230	0.0025	3.7	26	89	0.045	0.038	0.052	
53	No. 270	0.0021	3.4	24	77	0.036	0.031	0.041	
45	No. 325	0.0017	3.1	22	67	0.032	0.027	0.037	
38	No. 400	0.0015	2.9	20	58	0.03	0.024	0.035	
32	No. 450	0.0012	2.7	18	50	0.028	0.023	0.033	
25	No. 500	0.0010	2.5	16	41	0.025	0.021	0.029	
20	No. 635	0.0008	2.3	15	35	0.02	0.017	0.023	

Column 3 - These numbers are only approximate but are in use for reference; the sieve shall be identified by the standard designation in millimeters or micrometer