STANDARD SPECIFICATION FOR WOVEN WIRE TEST SIEVE CLOTH AND TEST SIEVES
ASTM E11 - 13

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.)	± 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 micrometers.