

TABLE 1 Nominal Dimensions and Permissible Variations for Sieve Cloth and Compliance, Inspection and Calibration Test Sieves

(1)	(2a)	(2b)	(3) ^A	(4)	(5)	(6)	(7)	(8)	(9) ^{B, C}	(10)	(11) ^{B, C}	(12)	(13)	(14)	(15)
Standard	Sieve Designation		Nominal Sieve Opening	±Y Variation for Average Opening	+X Maximum Variation for Opening	Resulting Maximum Individual Opening	Compliance Sieves		Inspection Sieves		Calibration Sieves		Typical Wire Diameter	Permissible Average Wire Diameter	
	U.S. Alternative	Supplementary Size					Sample Openings per 100 ft ²	Maximum Standard Deviation	Sample Openings per Sieve	Maximum Standard Deviation	Sample Openings per Sieve	Maximum Standard Deviation		Min	Max
mm	mm	mm	in.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
125	5 in.	112	5.00	3.30	4.06	129.06	20	—	all	—	all	—	8.00	6.8	9.2
106	4.24 in.		4.41	2.96	3.74	115.74	20	—	all	—	all	—	8.00	6.8	9.2
100	4 in.		4.24	2.80	3.59	109.59	20	—	all	—	all	—	6.30	5.4	7.2
90	3½ in.		4.00	2.65	3.44	103.44	20	—	all	—	all	—	6.30	5.4	7.2
75	3 in.	80	3.50	2.39	3.18	93.18	20	—	all	—	all	—	6.30	5.4	7.2
63	2½ in.		3.15	2.13	2.91	82.91	20	—	all	—	all	—	6.30	5.4	7.2
53	2.12 in.		3.00	2.00	2.78	77.78	20	—	all	—	all	—	6.30	5.4	7.2
50	2 in.		2.80	1.89	2.67	73.67	20	—	all	—	all	—	6.30	5.4	7.2
45	1¾ in.		2.50	1.69	2.44	65.44	20	—	all	—	all	—	6.30	5.4	7.2
37.5	1½ in.		2.20	1.50	2.24	58.24	20	—	all	—	all	—	6.30	5.4	7.2
31.5	1¼ in.		2.12	1.42	2.15	55.15	20	—	all	—	all	—	6.30	5.4	7.2
26.5	1.06 in.		2.00	1.34	2.06	52.06	20	—	all	—	all	—	6.30	5.4	7.2
25	1.00 in.		1.75	1.21	1.91	46.91	20	—	all	—	all	—	6.30	5.4	7.2
22.4	¾ in.		1.57	1.08	1.75	41.75	20	—	all	—	all	—	6.30	5.4	7.2
19	¾ in.		1.50	1.01	1.67	39.17	20	1.103	all	—	all	—	6.30	5.4	7.2
16	¾ in.		1.40	0.961	1.60	37.10	20	1.035	all	—	all	—	6.30	5.4	7.2
13.2	0.530 in.		1.25	0.855	1.47	32.97	20	0.907	all	—	all	—	6.30	5.4	7.2
12.5	½ in.		1.10	0.762	1.35	29.35	20	0.802	all	—	all	—	6.30	5.4	7.2
11.2	⅞ in.		1.06	0.722	1.29	27.79	20	0.758	all	—	all	—	6.30	5.4	7.2
9.5	⅝ in.		1.00	0.682	1.24	26.24	20	0.715	all	—	all	—	6.30	5.4	7.2
8	⅝ in.		0.875	0.613	1.14	23.54	150	0.641	all	0.431	all	—	6.30	5.4	7.2
6.7	0.265 in.		0.787	0.548	1.05	21.05	150	0.575	15	0.387	30	0.460	6.30	5.4	7.2
6.3	¼ in.		0.750	0.522	1.01	20.01	150	0.548	15	0.368	30	0.393	6.30	5.4	7.2
5.6	No. 3½		0.709	0.495	0.97	18.97	150	0.521	15	0.350	30	0.374	6.30	5.4	7.2
4.75	No. 4		0.625	0.441	0.89	16.89	150	0.467	15	0.314	30	0.335	6.30	5.4	7.2
4	No. 5		0.551	0.387	0.81	14.81	150	0.414	15	0.278	30	0.297	6.30	5.4	7.2
3.35	No. 6		0.530	0.365	0.78	13.98	150	0.393	15	0.264	30	0.282	6.30	5.4	7.2
2.8	No. 7		0.500	0.346	0.75	13.25	150	0.374	15	0.251	30	0.268	6.30	5.4	7.2
2.36	No. 8		0.438	0.311	0.69	11.89	150	0.340	15	0.229	30	0.244	6.30	5.4	7.2
2	No. 10		0.394	0.279	0.64	10.64	150	0.308	15	0.207	30	0.221	6.30	5.4	7.2
1.7	No. 12		0.375	0.265	0.61	10.11	150	0.294	15	0.198	30	0.211	6.30	5.4	7.2
			0.354	0.251	0.59	9.59	150	0.281	15	0.189	30	0.202	6.30	5.4	7.2
			0.312	0.224	0.54	8.54	150	0.254	15	0.171	30	0.182	6.30	5.4	7.2
			0.280	0.200	0.50	7.60	150	0.230	15	0.155	30	0.165	6.30	5.4	7.2
			0.265	0.189	0.48	7.18	150	0.219	15	0.147	30	0.157	6.30	5.4	7.2
			0.250	0.178	0.46	6.78	150	0.208	15	0.140	30	0.149	6.30	5.4	7.2
			0.223	0.159	0.42	6.02	150	0.189	15	0.127	30	0.136	6.30	5.4	7.2
			0.197	0.142	0.39	5.39	150	0.172	15	0.116	30	0.123	6.30	5.4	7.2
			0.187	0.135	0.37	5.12	150	0.165	15	0.111	30	0.118	6.30	5.4	7.2
			0.177	0.128	0.36	4.86	150	0.158	15	0.106	30	0.113	6.30	5.4	7.2
			0.157	0.114	0.33	4.33	150	0.143	15	0.096	30	0.103	6.30	5.4	7.2
			0.140	0.102	0.30	3.85	200	0.130	20	0.092	40	0.097	6.30	5.4	7.2
			0.132	0.096	0.29	3.64	200	0.125	20	0.088	40	0.093	6.30	5.4	7.2
			0.124	0.091	0.28	3.43	200	0.119	20	0.084	40	0.089	6.30	5.4	7.2
			0.110	0.081	0.26	3.06	200	0.108	20	0.076	40	0.081	6.30	5.4	7.2
			0.0984	0.073	0.24	2.74	200	0.099	20	0.070	40	0.074	6.30	5.4	7.2
			0.0937	0.069	0.23	2.59	200	0.095	20	0.067	40	0.071	6.30	5.4	7.2
			0.0882	0.065	0.22	2.46	200	0.091	20	0.064	40	0.068	6.30	5.4	7.2
			0.0787	0.059	0.20	2.20	250	0.083	25	0.060	50	0.064	6.30	5.4	7.2
			0.0709	0.053	0.19	1.99	250	0.077	25	0.056	50	0.059	6.30	5.4	7.2
			0.0661	0.050	0.18	1.88	250	0.074	25	0.054	50	0.057	6.30	5.4	7.2

TABLE 1 Continued

(1)	(2a)	(2b)	(3) ^A	(4)	(5)	(6)	(7)	(8)	(9) ^{B, C}	(10)	(11) ^{B, C}	(12)	(13)	(14)	(15)
Standard	Sieve Designation		Nominal Sieve Opening	±Y Variation for Average Opening	+X Maximum Variation for Opening	Resulting Maximum Individual Opening	Compliance Sieves		Inspection Sieves		Calibration Sieves		Typical Wire Diameter	Permissible Average Wire Diameter	
	U.S. Supplementary Alternative	Size					Sample Openings per 100 ft ²	Maximum Standard Deviation	Sample Openings per Sieve	Maximum Standard Deviation	Sample Openings per Sieve	Maximum Standard Deviation		Sample Openings per Sieve	Maximum Standard Deviation
1.4	No. 14	1.6	0.0630	0.047	0.17	1.77	250	0.070	25	0.051	50	0.054	0.80	0.68	0.92
		900	0.0354	27.6	118	1018	400	45.51	40	35.22	80	36.74	0.500	0.43	0.58
1.18	No. 16	1.25	0.0555	0.042	0.16	1.56	400	43.66	40	33.79	80	35.25	0.500	0.43	0.58
		800	0.0315	26.2	114	964	400	41.79	40	32.34	80	33.74	0.450	0.38	0.52
1	No. 18	1.12	0.0469	0.036	0.14	1.32	400	38.36	50	30.43	100	31.62	0.450	0.38	0.52
		630	0.0278	22.2	101	811	500	35.23	50	27.95	100	29.04	0.34	0.34	0.46
		560	0.0234	19.0	91	691	500	34.04	50	27.00	100	28.06	0.400	0.34	0.46
		450	0.0177	14.7	75	525	600	29.96	60	24.21	120	25.09	0.315	0.27	0.36
		400	0.0157	13.3	70	470	600	26.79	60	21.65	120	22.43	0.280	0.24	0.32
		315	0.0124	10.8	60	375	800	21.90	80	18.17	160	18.75	0.200	0.17	0.23
		280	0.0110	9.8	56	356	800	20.26	80	16.81	160	17.34	0.180	0.15	0.21
		224	0.0088	8.1	49	302	800	18.82	80	15.61	160	16.11	0.160	0.13	0.19
		200	0.0079	7.4	45	245	800	16.93	80	14.54	160	15.01	0.160	0.13	0.19
		160	0.0070	6.8	43	223	1000	15.27	100	12.91	200	13.28	0.125	0.106	0.150
		140	0.0059	6.0	38	188	1000	13.65	100	12.00	200	12.34	0.112	0.095	0.130
		112	0.0044	5.2	34	159	1000	12.23	100	10.33	200	11.38	0.100	0.085	0.115
		100	0.0039	4.5	30	130	1000	11.46	100	9.68	200	9.96	0.080	0.068	0.092
		80	0.0031	3.9	27	107	1000	10.73	100	9.07	200	9.33	0.071	0.060	0.082
		71	0.0028	3.6	25	96	1000	9.45	100	8.53	200	8.78	0.063	0.054	0.072
		56	0.0022	3.2	22	78	1000	8.29	100	7.79	200	7.31	0.045	0.038	0.052
		50	0.0020	3.0	21	71	1000	7.56	100	6.99	200	6.67	0.040	0.034	0.046
		40	0.0017	2.8	20	65	1000	6.95	100	6.39	250	6.04	0.036	0.031	0.041
		36	0.0014	2.6	18	54	1000	6.38	100	5.87	250	5.83	0.032	0.027	0.037
		32	0.0012	2.4	17	49	1000	6.22	100	5.69	300	5.69	0.030	0.024	0.035
		25	0.0010	2.2	15	40	1000	5.87	100	4.96	300	5.23	0.028	0.023	0.033
		20	0.0008	2.1	13	33	1000	4.73	100	4.42	300	4.66	0.025	0.021	0.029

^A Column 3—These numbers are only approximate but are in use for reference; the sieve shall be identified by the standard designation in millimetres or micrometres. Columns 9 and 11 See Annex A1, which specifies that all openings will be inspected for test sieves having 15 openings or less.

^C Columns 9 and 11—These number of sample openings are based on an 8-in. diameter test sieve.