

STANDARD SPECIFICATION FOR THE WOVEN WIRE TEST SIEVE CLOTH AND TEST SIEVES



Nominal dimensions and permissible variations for sieve cloth (mesh) for Compliance, Inspection and Calibration grade test sieves

Sieve Designation		Nominal Sieve Opening	± Y Variation for Average Opening	+ X Maximum Variation for Opening	Resulting Maximum Individual Opening	Typical Wire Diameter	Permissible Average Wire Diameter		
U.S. Alternative	Standard						Min	Max	
		Millimeters	inches	Millimeters	Millimeters	Millimeters			
	5"	125	5.00	3.300	4.06	129.06	8.00	6.8	9.2
	4.24"	106	4.24	2.800	3.59	109.59	6.30	5.4	7.2
	4"	100	4.00	2.650	3.44	103.44	6.30	5.4	7.2
	3-1/2"	90	3.50	2.390	3.18	93.18	6.30	5.4	7.2
	3"	75	3.00	2.000	2.78	77.78	6.30	5.4	7.2
	2-1/2"	63	2.50	1.690	2.44	65.44	5.60	4.8	6.4
	2.12"	53	2.12	1.420	2.15	55.15	5.00	4.3	5.8
	2"	50	2.00	1.340	2.06	52.06	5.00	4.3	5.8
	1-3/4"	45	1.75	1.210	1.91	46.91	4.50	3.8	5.2
	1-1/2"	37.5	1.50	1.010	1.67	39.17	4.50	3.8	5.2
	1-1/4"	31.5	1.25	0.855	1.47	32.97	4.00	3.4	4.6
	1.06"	26.5	1.06	0.722	1.29	27.79	3.55	3.0	4.1
	1.00"	25	1.00	0.682	1.24	26.24	3.55	3.0	4.1
	7/8"	22.4	0.875	0.613	1.14	23.54	3.55	3.0	4.1
	3/4"	19	0.750	0.522	1.01	20.01	3.15	2.7	3.6
	5/8"	16	0.625	0.441	0.89	16.89	3.15	2.7	3.6
	0.530"	13.2	0.530	0.365	0.78	13.98	2.80	2.4	3.2
	1/2"	12.5	0.500	0.346	0.75	13.25	2.50	2.1	2.9
	7/16"	11.2	0.438	0.311	0.69	11.89	2.50	2.1	2.9
	3/8"	9.5	0.375	0.265	0.61	10.11	2.24	1.9	2.6
	5/16"	8	0.312	0.224	0.54	8.54	2.00	1.7	2.3
	0.265"	6.7	0.265	0.189	0.48	7.18	1.80	1.5	2.1
	1/4"	6.3	0.250	0.178	0.46	6.76	1.80	1.5	2.1
	#3.5	5.6	0.223	0.159	0.42	6.02	1.60	1.3	1.9
	#4	4.75	0.187	0.135	0.37	5.12	1.60	1.3	1.9
	#5	4	0.157	0.114	0.33	4.33	1.40	1.2	1.7
	#6	3.35	0.132	0.096	0.29	3.64	1.25	1.06	1.50
	#7	2.8	0.110	0.081	0.26	3.06	1.12	0.95	1.30
	#8	2.36	0.0937	0.069	0.23	2.59	1.00	0.85	1.15
	#10	2	0.0787	0.059	0.20	2.20	0.90	0.77	1.04
	#12	1.7	0.0661	0.050	0.18	1.88	0.80	0.68	0.92
	#14	1.4	0.0555	0.042	0.16	1.56	0.71	0.60	0.82
	#16	1.18	0.0469	0.036	0.140	1.320	0.63	0.54	0.72
	#18	1	0.0394	0.030	0.130	1.130	0.560	0.480	0.64
		Micrometers	inches	Micrometers	Micrometers	Micrometers	Millimeters		
	#20	850	0.0331	26.2	114	964	0.500	0.43	0.58
	#25	710	0.0278	22.2	101	811	0.450	0.38	0.52
	#30	600	0.0234	19.0	91	691	0.400	0.34	0.46
	#35	500	0.0197	16.2	80	580	0.315	0.27	0.36
	#40	425	0.0165	14.0	73	498	0.280	0.24	0.32
	#45	355	0.0139	12.0	65	420	0.224	0.19	0.26
	#50	300	0.0117	10.4	58	358	0.200	0.17	0.23
	#60	250	0.0098	8.9	52	302	0.160	0.13	0.19
	#70	212	0.0083	7.8	47	259	0.140	0.12	0.17
	#80	180	0.0070	6.8	43	223	0.125	0.106	0.150
	#100	150	0.0059	6.0	38	188	0.100	0.085	0.115
	#120	125	0.0049	5.2	34	159	0.090	0.077	0.104
	#140	106	0.0041	4.7	31	137	0.071	0.060	0.082
	#170	90	0.0035	4.2	29	119	0.063	0.054	0.072
	#200	75	0.0029	3.7	26	101	0.050	0.043	0.058
	#230	63	0.0025	3.4	24	87	0.045	0.038	0.052
	#270	53	0.0021	3.1	21	74	0.036	0.031	0.041
	#325	45	0.0017	2.8	20	65	0.032	0.027	0.037
	#400	38	0.0015	2.6	18	56	0.030	0.024	0.035
	#450	32	0.0012	2.4	17	49	0.028	0.023	0.033
	#500	25	0.0010	2.2	15	40	0.025	0.021	0.029
	#635	20	0.0008	2.1	13	33	0.020	0.017	0.023

Advantech manufactures a variety of sieves with the above wire cloth.
Additional ASTM, ISO or custom mesh sizes are available upon request.