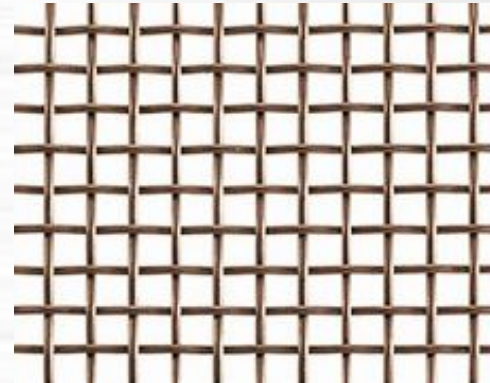




**WIRE MESH**  
WEB WIRE MESH CO.,LTD

**Nickel Wire Mesh**

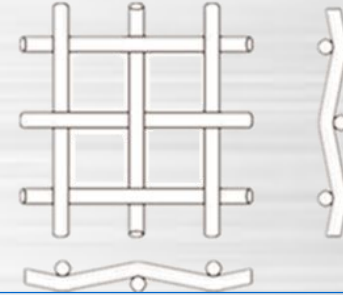


**Plain Weave**

## Nickel Wire Mesh Plain Weave

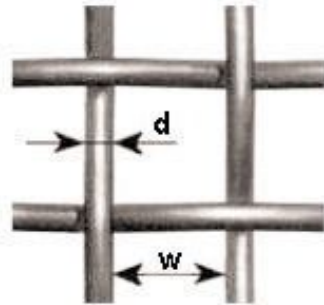
### Plain Weave

Each warp wire passes alternately over and under the wires running transversely through the cloth at 90 degree angles.



### Opening (w)

Clear opening between adjacent parallel wires; not affected by diameter of the wire.



### Wire diameter (d)

### Mesh

Number of openings in a linear inch measured from the center of one wire to a point 1" distant.

$$\text{Mesh} = \frac{25.4 \text{ mm}}{w \text{ (mm)} + d \text{ (mm)}}$$

### Opening area (A)

The percentage of the opening is calculated as follows

$$A = \left( \frac{w}{w+d} \right)^2 \times 100\%$$



## Nickel Wire Mesh

### Plain Weave

Mesh	Wire		Aperture		Open Area		Weight	
	mm	inch	mm	inch	%	mm <sup>2</sup>	kgs/m <sup>2</sup>	lbs/m <sup>2</sup>
20	0.50	0.0196	0.770	0.0303	36.75	0.5929	2.83	6.22
	0.45	0.0177	0.820	0.0322	41.68	0.6724	2.28	5.02
	0.40	0.0157	0.87	0.0342	46.92	0.7569	1.81	3.98
	0.35	0.0137	0.92	0.0362	52.47	0.8464	1.38	3.03
	0.30	0.0118	0.970	0.0381	58.33	0.9409	1.02	2.24
	0.27	0.0106	1	0.0393	62.00	1	0.81	1.79
	0.25	0.0098	1.020	0.0401	64.50	1.0404	0.70	1.54
	0.23	0.0090	1.04	0.0409	67.05	1.0816	0.59	1.29
	0.21	0.0082	1.06	0.0417	69.66	1.1236	0.50	1.09
	0.19	0.0074	1.080	0.0425	72.31	1.1664	0.41	0.89
	0.17	0.0066	1.1	0.0433	75.02	1.21	0.32	0.70
	0.15	0.0059	1.12	0.0440	77.77	1.2544	0.25	0.55
22	0.4	0.0157	0.7545	0.0297	42.71	0.5693	1.99	4.38
	0.35	0.0137	0.8045	0.0316	48.56	0.6472	1.51	3.33
	0.30	0.0118	0.8545	0.0336	54.78	0.7302	1.12	2.46
	0.27	0.0106	0.8845	0.0348	58.69	0.7824	0.90	1.99
	0.25	0.0098	0.904	0.0356	61.38	0.8182	0.77	1.69

## Nickel Wire Mesh Plain Weave

Mesh	Wire		Aperture		Open Area		Weight	
	mm	inch	mm	inch	%	mm <sup>2</sup>	kgs/m <sup>2</sup>	lbs/m <sup>2</sup>
22	0.23	0.0090	0.924	0.0363	64.12	0.8547	0.66	1.44
	0.21	0.0082	0.944	0.0371	66.93	0.8921	0.54	1.19
	0.19	0.0074	0.9645	0.0379	69.79	0.9303	0.44	0.97
	0.17	0.0066	0.9845	0.0387	72.71	0.9693	0.35	0.77
	0.15	0.0059	1.0045	0.0395	75.70	1.0091	0.27	0.60
24	0.35	0.0137	0.708	0.0278	44.79	0.5017	1.66	3.65
	0.30	0.0118	0.758	0.0298	51.34	0.5750	1.22	2.68
	0.27	0.0106	0.788	0.0310	55.48	0.6214	0.98	2.16
	0.25	0.0098	0.808	0.0318	58.33	0.6534	0.85	1.86
	0.23	0.0090	0.828	0.0326	61.25	0.6861	0.71	1.57
	0.21	0.0082	0.848	0.0333	64.25	0.7196	0.59	1.29
	0.19	0.0074	0.868	0.0341	67.31	0.7540	0.49	1.07
	0.17	0.0066	0.888	0.0349	70.45	0.7891	0.38	0.85
	0.15	0.0059	0.908	0.0357	73.66	0.8250	0.31	0.67
	0.13	0.0051	0.928	0.0365	76.94	0.8618	0.23	0.50
	0.12	0.0047	0.938	0.0369	78.60	0.8804	0.19	0.42

## Nickel Wire Mesh Plain Weave

Mesh	Wire		Aperture		Open Area		Weight	
	mm	inch	mm	inch	%	mm <sup>2</sup>	kgs/m <sup>2</sup>	lbs/m <sup>2</sup>
30	0.35	0.0137	0.496	0.0195	34.41	0.2466	2.07	4.55
	0.30	0.0118	0.546	0.0215	41.68	0.2988	1.53	3.36
	0.27	0.0106	0.576	0.0227	46.39	0.3325	1.23	2.71
	0.25	0.0098	0.596	0.0234	49.66	0.3560	1.05	2.31
	0.23	0.0090	0.616	0.0242	53.04	0.3802	0.89	1.96
	0.21	0.0082	0.636	0.0250	56.54	0.4053	0.75	1.64
	0.19	0.0074	0.656	0.0258	60.15	0.4312	0.61	1.34
	0.17	0.0066	0.676	0.0266	63.87	0.4578	0.49	1.07
	0.15	0.0059	0.696	0.0274	67.70	0.4853	0.37	0.82
	0.13	0.0051	0.716	0.0282	71.64	0.5136	0.28	0.62
	0.12	0.0047	0.726	0.0286	73.66	0.5280	0.24	0.52
32	0.28	0.0110	0.513	0.0202	41.89	0.2639	1.41	3.11
	0.25	0.0098	0.543	0.0214	46.92	0.2956	1.13	2.49
	0.23	0.0090	0.563	0.0221	50.44	0.3178	0.95	2.09
	0.21	0.0082	0.583	0.0229	54.08	0.3407	0.79	1.74
	0.19	0.0074	0.603	0.0237	57.85	0.3645	0.64	1.42
	0.17	0.0066	0.623	0.0245	61.75	0.3890	0.52	1.14
	0.15	0.0059	0.643	0.0253	65.77	0.4144	0.41	0.89

## Nickel Wire Mesh Plain Weave

Mesh	Wire		Aperture		Open Area		Weight	
	mm	inch	mm	inch	%	mm <sup>2</sup>	kgs/m <sup>2</sup>	lbs/m <sup>2</sup>
35	0.3	0.0118	0.425	0.0167	34.41	0.1812	1.77	3.90
	0.28	0.0110	0.445	0.0175	37.72	0.1986	1.55	3.41
	0.25	0.0098	0.475	0.0187	42.96	0.2263	1.23	2.71
	0.23	0.0091	0.496	0.0195	46.66	0.2457	1.05	2.30
	0.21	0.0082	0.515	0.0203	50.49	0.2659	0.87	1.91
	0.19	0.0074	0.535	0.0210	54.49	0.2869	0.71	1.57
	0.17	0.0066	0.555	0.0218	58.63	0.3088	0.57	1.24
	0.15	0.0059	0.575	0.0226	62.93	0.3314	0.44	0.97
40	0.30	0.0118	0.335	0.0131	27.83	0.1122	2.03	4.47
	0.27	0.0106	0.365	0.0143	33.03	0.1332	1.64	3.60
	0.25	0.0098	0.385	0.0151	36.75	0.1482	1.41	3.11
	0.23	0.0090	0.405	0.0159	40.67	0.1640	1.19	2.61
	0.21	0.0082	0.425	0.0167	44.79	0.1806	0.99	2.19
	0.19	0.0074	0.445	0.0175	49.11	0.1980	0.81	1.79
	0.17	0.0066	0.465	0.0183	53.62	0.2162	0.64	1.42
	0.15	0.0059	0.485	0.0190	58.33	0.2352	0.51	1.12
	0.13	0.0051	0.505	0.0198	63.24	0.2550	0.37	0.82
	0.12	0.0047	0.515	0.0202	65.77	0.2652	0.32	0.70

## Nickel Wire Mesh Plain Weave

Mesh	Wire		Aperture		Open Area		Weight	
	mm	inch	mm	inch	%	mm <sup>2</sup>	kgs/m <sup>2</sup>	lbs/m <sup>2</sup>
50	0.25	0.0098	0.258	0.0101	25.79	0.0665	1.76	3.88
	0.23	0.0090	0.278	0.0109	29.94	0.0772	1.49	3.28
	0.21	0.0082	0.298	0.0117	34.41	0.0888	1.24	2.73
	0.19	0.0074	0.318	0.0125	39.18	0.1011	1.02	2.24
	0.18	0.0070	0.328	0.0129	41.68	0.1075	0.92	2.01
	0.17	0.0066	0.338	0.0133	44.26	0.1142	0.81	1.79
	0.15	0.0059	0.358	0.0140	49.66	0.1281	0.63	1.39
	0.13	0.0051	0.378	0.0148	55.36	0.1428	0.47	1.04
	0.12	0.0047	0.388	0.0152	58.33	0.1505	0.41	0.89
60	0.23	0.0090	0.193	0.0076	20.85	0.0373	1.79	3.93
	0.21	0.0082	0.213	0.0083	25.39	0.0455	1.49	3.28
	0.19	0.0074	0.233	0.0091	30.38	0.0544	1.22	2.68
	0.17	0.0066	0.253	0.0099	35.81	0.0641	0.97	2.14
	0.15	0.0059	0.273	0.0107	41.68	0.0747	0.76	1.67
	0.13	0.0051	0.293	0.0115	48.01	0.0860	0.57	1.24
80	0.12	0.0047	0.303	0.0119	51.34	0.0920	0.49	1.07
	0.13	0.0051	0.187	0.0073	34.87	0.0351	0.76	1.67
	0.12	0.0047	0.197	0.0077	38.69	0.0390	0.64	1.42

## Nickel Wire Mesh Plain Weave

Mesh	Wire		Aperture		Open Area		Weight	
	mm	inch	mm	inch	%	mm <sup>2</sup>	kgs/m <sup>2</sup>	lbs/m <sup>2</sup>
80	0.10	0.0039	0.217	0.0085	46.92	0.0473	0.45	0.99
	0.09	0.0035	0.227	0.0089	51.34	0.0517	0.36	0.80
100	0.10	0.0039	0.154	0.0060	36.75	0.0237	0.57	1.24
	0.08	0.0031	0.174	0.0068	46.92	0.0302	0.36	0.80
120	0.08	0.0031	0.131	0.0051	38.69	0.0173	0.54	1.19
	0.09	0.0035	0.121	0.0047	33.03	0.0148	0.43	0.94
	0.05	0.0019	0.161	0.0063	58.33	0.0261	0.33	0.72
	0.07	0.0027	0.141	0.0055	44.79	0.0200	0.24	0.52
	0.06	0.0023	0.151	0.0059	51.34	0.0230	0.17	0.37
	0.06	0.0023	0.109	0.0043	41.68	0.0119	0.35	0.77
150	0.065	0.0025	0.104	0.0041	37.96	0.0108	0.31	0.67
	0.063	0.0024	0.090	0.0035	34.89	0.0082	0.36	0.80
165	0.06	0.0023	0.093	0.0036	37.23	0.0088	0.33	0.72
	0.05	0.0019	0.103	0.0040	45.58	0.0108	0.23	0.50
180	0.05	0.0019	0.091	0.0035	41.68	0.0083	0.25	0.55
200	0.05	0.0019	0.077	0.0030	36.75	0.0059	0.28	0.62



## Nickel Wire Mesh Plain Weave



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