

Legend Sr. No. 6

Needle gauge comparison chart

Needle wire gauge is derived from the Birmingham Wire Gauge.

#1 = 18½ B.W.G.; #2 = 19 B.W.G., and so on to #14 = 31 B.W.G.

Needle <i>Gauge</i>	Nominal outer diameter			Nominal inner diameter			Nominal wall thickness		
	<i>inches</i>	<i>mm</i>	<i>tol. inches (mm)</i>	<i>inches</i>	<i>mm</i>	<i>tol. inches (mm)</i>	<i>inches</i>	<i>mm</i>	<i>tol. inches (mm)</i>
18	0.050	1.270	±0.0005 (±0.013)	0.033	0.838	±0.0015 (±0.038)	0.0085	0.216	±0.0005 (±0.013)
19	0.042	1.067	±0.0005 (±0.013)	0.027	0.686	±0.0015 (±0.038)	0.0075	0.191	±0.0005 (±0.013)
20	0.03575	0.9081	±0.00025 (±0.0064)	0.02375	0.603	±0.00075 (±0.019)	0.006	0.1524	±0.00025 (±0.0064)
21	0.03225	0.8192	±0.00025 (±0.0064)	0.02025	0.514	±0.00075 (±0.019)	0.006	0.1524	±0.00025 (±0.0064)
22	0.02825	0.7176	±0.00025 (±0.0064)	0.01625	0.413	±0.00075 (±0.019)	0.006	0.1524	±0.00025 (±0.0064)
22s	0.02825	0.7176	±0.00025 (±0.0064)	0.006	0.152	±0.00075 (±0.019)	0.0111	0.2826	±0.00025 (±0.0064)
23	0.02525	0.6414	±0.00025 (±0.0064)	0.01325	0.337	±0.00075 (±0.019)	0.006	0.1524	±0.00025 (±0.0064)
24	0.02225	0.5652	±0.00025 (±0.0064)	0.01225	0.311	±0.00075 (±0.019)	0.005	0.1270	±0.00025 (±0.0064)