

Needle Gauge Comparison Chart

<u>Needle</u> <i>Gauge</i>	<u>Nominal O.D.</u>			<u>Nominal I.D.</u>		
	<i>mm</i>	<i>inches</i>	<i>tol. (in.)</i>	<i>mm</i>	<i>inches</i>	<i>tol. (in.)</i>
<u>10</u>	<u>3.404</u>	<u>0.1340</u>	<u>±0.0010</u>	<u>2.692</u>	<u>0.1060</u>	<u>±0.0020</u>
<u>11</u>	<u>3.048</u>	<u>0.1200</u>	"	<u>2.388</u>	<u>0.0940</u>	"
<u>12</u>	<u>2.769</u>	<u>0.1090</u>	"	<u>2.159</u>	<u>0.0850</u>	"
<u>13</u>	<u>2.413</u>	<u>0.0950</u>	"	<u>1.803</u>	<u>0.0710</u>	"
<u>14</u>	<u>2.108</u>	<u>0.0830</u>	"	<u>1.600</u>	<u>0.0630</u>	"
<u>15</u>	<u>1.829</u>	<u>0.0720</u>	<u>±0.0005</u>	<u>1.372</u>	<u>0.0540</u>	<u>±0.0015</u>
<u>16</u>	<u>1.651</u>	<u>0.0650</u>	"	<u>1.194</u>	<u>0.0470</u>	"
<u>17</u>	<u>1.473</u>	<u>0.0580</u>	"	<u>1.067</u>	<u>0.0420</u>	"
<u>18</u>	<u>1.270</u>	<u>0.0500</u>	"	<u>0.838</u>	<u>0.0330</u>	"
<u>19</u>	<u>1.067</u>	<u>0.0420</u>	"	<u>0.686</u>	<u>0.0270</u>	"
<u>20</u>	<u>0.902</u>	<u>0.0355</u>	<u>+0.0005</u> <u>-0.0000</u>	<u>0.584</u>	<u>0.0230</u>	<u>+0.0015</u> <u>-0.0000</u>
<u>21</u>	<u>0.813</u>	<u>0.0320</u>	"	<u>0.495</u>	<u>0.0195</u>	"
<u>22</u>	<u>0.711</u>	<u>0.0280</u>	"	<u>0.394</u>	<u>0.0155</u>	"
<u>22s</u>	<u>0.711</u>	<u>0.0280</u>	"	<u>0.140</u>	<u>0.0055</u>	"
<u>23</u>	<u>0.635</u>	<u>0.0250</u>	"	<u>0.318</u>	<u>0.0125</u>	"
<u>24</u>	<u>0.559</u>	<u>0.0220</u>	"	<u>0.292</u>	<u>0.0115</u>	"
<u>25</u>	<u>0.508</u>	<u>0.0200</u>	"	<u>0.241</u>	<u>0.0095</u>	"
<u>25s</u>	<u>0.508</u>	<u>0.0200</u>	"	<u>0.140</u>	<u>0.0055</u>	"
<u>26</u>	<u>0.457</u>	<u>0.0180</u>	"	<u>0.241</u>	<u>0.0095</u>	"
<u>26s</u>	<u>0.467</u>	<u>0.0184</u>	"	<u>0.114</u>	<u>0.0045</u>	"
<u>27</u>	<u>0.406</u>	<u>0.0160</u>	"	<u>0.191</u>	<u>0.0075</u>	"
<u>28</u>	<u>0.356</u>	<u>0.0140</u>	"	<u>0.165</u>	<u>0.0065</u>	"
<u>29</u>	<u>0.330</u>	<u>0.0130</u>	"	<u>0.165</u>	<u>0.0065</u>	"
<u>30</u>	<u>0.305</u>	<u>0.0120</u>	"	<u>0.140</u>	<u>0.0055</u>	"
<u>31</u>	<u>0.254</u>	<u>0.0100</u>	"	<u>0.114</u>	<u>0.0045</u>	"
<u>32</u>	<u>0.229</u>	<u>0.0090</u>	"	<u>0.089</u>	<u>0.0035</u>	"
<u>33</u>	<u>0.203</u>	<u>0.0080</u>	"	<u>0.089</u>	<u>0.0035</u>	"