

Review activities:
USAF - 11
Navy - 48

This standard has been approved by the Department of the Air Force (11) and the Department of the Navy (48) and is mandatory for use by their activity. All other military activities are required to comply with standard unless indicated.

MS9290		FED. SUP CLASS 5306																																																																																																																																																																																																																																									
VIEW A ENLARGED		SECTION THROUGH THREAD PROFILE																																																																																																																																																																																																																																									
<table border="1"> <thead> <tr> <th>PART NUMBER</th> <th>L</th> <th>K</th> <th>APPROX WEIGHT LB/100</th> <th>PART NUMBER</th> <th>L</th> <th>K</th> <th>APPROX WEIGHT LB/100</th> </tr> </thead> <tbody> <tr><td>MS9290-03</td><td>.938</td><td>.118-.138</td><td>14.53</td><td>MS9290-31</td><td>3.500</td><td>1.940-2.000</td><td>34.16</td></tr> <tr><td>MS9290-04</td><td>1.000</td><td>.118-.138</td><td>15.01</td><td>MS9290-32</td><td>3.625</td><td>2.065-2.125</td><td>35.11</td></tr> <tr><td>MS9290-05</td><td>1.062</td><td>.118-.138</td><td>15.49</td><td>MS9290-33</td><td>3.750</td><td>2.190-2.250</td><td>36.07</td></tr> <tr><td>MS9290-06</td><td>1.125</td><td>.118-.138</td><td>15.97</td><td>MS9290-34</td><td>3.875</td><td>2.315-2.375</td><td>37.03</td></tr> <tr><td>MS9290-07</td><td>1.188</td><td>.118-.138</td><td>16.45</td><td>MS9290-35</td><td>4.000</td><td>2.440-2.500</td><td>37.98</td></tr> <tr><td>MS9290-08</td><td>1.250</td><td>.118-.138</td><td>16.93</td><td>MS9290-36</td><td>4.125</td><td>2.565-2.625</td><td>38.94</td></tr> <tr><td>MS9290-09</td><td>1.312</td><td>.118-.138</td><td>17.41</td><td>MS9290-37</td><td>4.250</td><td>2.690-2.750</td><td>39.90</td></tr> <tr><td>MS9290-10</td><td>1.375</td><td>.118-.138</td><td>17.89</td><td>MS9290-38</td><td>4.375</td><td>2.815-2.875</td><td>40.86</td></tr> <tr><td>MS9290-11</td><td>1.438</td><td>.118-.138</td><td>18.36</td><td>MS9290-39</td><td>4.500</td><td>2.940-3.000</td><td>41.81</td></tr> <tr><td>MS9290-12</td><td>1.500</td><td>.118-.138</td><td>18.84</td><td>MS9290-40</td><td>4.625</td><td>3.065-3.125</td><td>42.77</td></tr> <tr><td>MS9290-13</td><td>1.562</td><td>.118-.138</td><td>19.32</td><td>MS9290-41</td><td>4.750</td><td>3.190-3.250</td><td>43.73</td></tr> <tr><td>MS9290-14</td><td>1.625</td><td>.118-.138</td><td>19.80</td><td>MS9290-42</td><td>4.875</td><td>3.315-3.375</td><td>44.68</td></tr> 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<tr><td>MS9290-22</td><td>2.375</td><td>.815-.875</td><td>25.54</td><td>MS9290-50</td><td>5.875</td><td>4.315-4.375</td><td>52.34</td></tr> <tr><td>MS9290-23</td><td>2.500</td><td>.940-1.000</td><td>26.50</td><td>MS9290-51</td><td>6.000</td><td>4.440-4.500</td><td>53.30</td></tr> <tr><td>MS9290-24</td><td>2.625</td><td>1.065-1.125</td><td>27.46</td><td></td><td></td><td></td><td></td></tr> <tr><td>MS9290-25</td><td>2.750</td><td>1.190-1.250</td><td>28.41</td><td></td><td></td><td></td><td></td></tr> <tr><td>MS9290-26</td><td>2.875</td><td>1.315-1.375</td><td>29.37</td><td></td><td></td><td></td><td></td></tr> <tr><td>MS9290-27</td><td>3.000</td><td>1.440-1.500</td><td>30.33</td><td></td><td></td><td></td><td></td></tr> <tr><td>MS9290-28</td><td>3.125</td><td>1.565-1.625</td><td>31.28</td><td></td><td></td><td></td><td></td></tr> <tr><td>MS9290-29</td><td>3.250</td><td>1.690-1.750</td><td>32.24</td><td></td><td></td><td></td><td></td></tr> 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<ol style="list-style-type: none"> HEAD TO SHANK FILLET SHALL BE COLD ROLLED AFTER HEAT TREATMENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS. SHANK SHALL BE STRAIGHT WITHIN .002 PER INCH OF BOLT LENGTH. THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR. THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND HEXAGON SHALL BE WITHIN .028 FIR. INCOMPLETE THREADS NOT TO ENTER FILLET. MATERIAL: STEEL AMS 6322. HARDNESS: ROCKWELL C26-32. FINISH: BLACK OXIDE TREATMENT AMS 2485. MANUFACTURING SPECIFICATION: AMS 7452 EXCEPT HEAD MUST BE UPSET. MAGNETIC PARTICLE INSPECTION PER AMS 2640. SURFACE ROUGHNESS: AS 291. UNLESS OTHERWISE SPECIFIED SURFACES TO BE 125 MICROINCHES EXCEPT HEXAGON. BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±.010, ANGULAR DIMENSIONS ±5°. DO NOT USE UNASSIGNED PART NUMBERS. 																																																																																																																																																																																																																																											
<p>AS 4 AMS ARE SOCIETY OF AUTOMOTIVE ENGINEERS, INC. PUBLICATIONS. THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE SAE.</p>																																																																																																																																																																																																																																											
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APPROVED 24 Sept 65 REVISED 26 Oct. 72