HIGH TENSILE STEEL - 4140

RELATED SPECIFICATIONS:

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<tr>
<th>Country</th>
<th>Specifications</th>
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<tr>
<td>Australia</td>
<td>AS 1444-2007 – 4140</td>
</tr>
<tr>
<td>Germany</td>
<td>DIN 17212 W.Nr. 1.7223 Type 41CrMo4</td>
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<td></td>
<td>DIN 17200 – 1654 W.Nr 1.7228 Type 42CrMo4</td>
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<td>DIN 17200 W.Nr 1.7227 Type CrMoS4</td>
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<tr>
<td>Great Britain</td>
<td>BS970 – 1995 EN19A</td>
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<td>BS970 Part 3:1991 709M40</td>
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<td>USA</td>
<td>AISI 4140</td>
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<td></td>
<td>ASTM A29/A29M-91 4140</td>
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<td>ASTM A322 4140</td>
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<td>ASTM A331 4140 (cold finish)</td>
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<td>Japan</td>
<td>JIS G 4103 SNCM4</td>
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<td>JIS G 4105 SCM4</td>
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<td>JIS G 4105 SCM40</td>
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DESCRIPTION:

4140 is a medium carbon, chromium and molybdenum alloy steel. The normal condition is hardened and tempered to a range of 850 to 1000 Mpa ultimate tensile strength for bar sizes up to 220mm diameter. Limited ruling sections may apply according to Australian Standards.

APPLICATIONS:

4140 is an ideal general purpose high tensile constructional steel ready for use after machining. It is used for shafts, axles, studs & bolts, large gears and light duty form rolls. The steel is suitable for induction or flame hardening.

TYPICAL CHEMICAL ANALYSIS:

<table>
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<tr>
<th>C</th>
<th>Si</th>
<th>Mn</th>
<th>Cr</th>
<th>Mo</th>
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<tbody>
<tr>
<td>0.40</td>
<td>0.25</td>
<td>0.80</td>
<td>0.90</td>
<td>0.20</td>
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SIZE RANGE:

- **Round:**
  - Black: 8mm – 750mm
  - Peeled: 8mm – 710mm
  - Turned & Polished: 10mm – 127mm
  - Precision Ground: 10mm – 110mm
  - As Rolled: 24mm – 300mm

- **Hexagonal:** 19.05mm - 65mm

FINISHES:

Black, Peeled (K12), Cold Drawn, Turned & Polished (H10, H11), Precision Ground (H9, H8)

COLOUR CODE: BLUEBELL END

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