Steels for the Oil & Gas industry

Engineered for extreme environments

Our diverse steel portfolio ranges from alloys to corrosion-resistant stainless steels. These products enable our Oil & Gas customers to improve reliability and durability, while extending component operating life, thereby lowering the total cost of ownership.

Our steels are ideal for both on and off-shore extraction activities which require high strength steels for drillstrings or specialised completion tools used in shale extractions.

www.libertyspecialitysteels.com
**Product Range**

### Customer Approvals

- Baker Hughes
- Germanischer Lloyd
- Cameron
- Lloyd's Register
- Halliburton
- National Oilwell Varco (NOV)
- Smith International
- Weatherford

### Third Party Approvals

- Baker Hughes
- Germanischer Lloyd
- Cameron
- Lloyd's Register
- Halliburton
- National Oilwell Varco (NOV)
- Smith International
- Weatherford

### Products

#### Bars & Billets

- Hot Rolled Rounds: 1” > 15” 25.4mm > 381mm

### Oil & Gas Rolled Bar

#### Mechanical Properties

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25.4</td>
<td>50.8</td>
<td>76.2</td>
<td>101.6</td>
<td>127.0</td>
<td>152.4</td>
<td>177.8</td>
<td>203.2</td>
<td>228.6</td>
<td>254.0</td>
<td>279.4</td>
<td>304.8</td>
<td>330.2</td>
<td>355.6</td>
<td>381</td>
</tr>
</tbody>
</table>

#### Alloy Steels

<table>
<thead>
<tr>
<th>Diameter</th>
<th>0.2%</th>
<th>UTS</th>
<th>BI</th>
<th>R of A</th>
<th>HBW</th>
<th>CVN</th>
<th>Related Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.4 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Stainless Steels

<table>
<thead>
<tr>
<th>Diameter</th>
<th>0.2%</th>
<th>UTS</th>
<th>BI</th>
<th>R of A</th>
<th>HBW</th>
<th>CVN</th>
<th>Related Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.4 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Technical Support

We have a comprehensive technical support team available to advise on grade selection and product range to achieve the maximum benefit. Customer Technical Support provide specialist advice and help with day-to-day problem solving.

Works based metallurgists and the full resources of our Steel Research and Development Laboratories are available to assist with longer-term developments.

For further information, enquiries or any technical guidance on our range of Oil & Gas products please contact the Commercial Department at the address below.

### Accreditations

- BS EN ISO 9001
- BS EN 9100
- BS EN ISO 17025 (testing)
- Nadcap: Heat treatment, NDT, Material testing
- ISO 14001
- NORSOK M650

### Contact Us

Liberty Speciality Steels
7 Fox Valley Way, Stocksbridge, Sheffield, S36 2JA, United Kingdom
T: + 44 (0) 114 288 2361  E: contactus@specialityuk.com

While care has been taken to ensure that the information contained in this publication is accurate, Liberty Speciality Steels and Liberty House Group do not accept responsibility or liability for information which is found to be misleading.

©Copyright 2017 Liberty House Group