### Surface Tension Propellant Tank OST 21/0

<table>
<thead>
<tr>
<th><strong>Tank Net Volume</strong></th>
<th>235 Litres</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Propellants</strong></td>
<td>MON respectively MMH</td>
</tr>
<tr>
<td><strong>Geometrical Shape</strong></td>
<td>Spherical with a cylindrical intersection</td>
</tr>
<tr>
<td><strong>Maximum Expected Operating Pressure (MEOP)</strong></td>
<td>22.0 bar</td>
</tr>
<tr>
<td><strong>Proof Pressure (1.5 x MEOP)</strong></td>
<td>33.0 bar</td>
</tr>
<tr>
<td><strong>Burst Pressure (2.0 x MEOP)</strong></td>
<td>44.0 bar</td>
</tr>
<tr>
<td><strong>Interface Fixation</strong></td>
<td>12 Suspension Tabs with floating nuts M6 x 1 (e.g.)</td>
</tr>
</tbody>
</table>
| **Materials** | - Pressure Vessel Ti6Al4V STA (3.7164.7) Ti6Al4V (3.7164.1)
- Suspension/Ports Ti99.4 (3.7034.1) and Ti6Al4V (3.7164.1)
- PMD 304L (1.4306); qualified also for Ti99.4 (3.7025.1)
- Screens |
| **Tank Mass** | 16 kg |
| **Project Involvement** | Amos |

**Pressurant Gas:** Helium (He) or Nitrogen (N₂)

- **Maximum Expected Operating Pressure (MEOP):** 22.0 bar
- **Proof Pressure (1.5 x MEOP):** 33.0 bar
- **Burst Pressure (2.0 x MEOP):** 44.0 bar

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