Key Benefits

- Extensive Material & Equipment Qualification
- Excellent Lubrication & Anti Wear Properties
- Maximum operating temperatures up to 170°C/338°F
- VPI - Vapor Phase Corrosion Inhibition
- Environmentally Acceptable for Global Discharge
- Manufactured to NAS 1638/AS 4059 Class 6/6b-f or better cleanliness
- Free Fluid Monitoring programme ensures long service life

Description

Pelagic 100 fluids are used in open and closed loop Subsea Production control systems and by equipment manufacturers.

Pelagic 100 series control fluids are environmentally acceptable with superior biodegradation, low toxicity and no tendency to bioaccumulate in marine species. This level of environmental acceptability ensures that Pelagic 100 fluids meet Global Environmental requirements for subsea control fluids both today and for the foreseeable future.

Approvals

Pelagic 100 is named in ISO13628-6 specification and is preferred by major equipment manufacturers.

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Pelagic 100 H</th>
<th>Pelagic 100 M</th>
<th>Pelagic 100 L</th>
<th>Pelagic 100 HC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Pink or clear</td>
<td>Pink</td>
<td>Pink</td>
<td>Pink</td>
</tr>
<tr>
<td>pH @ 20°C</td>
<td>9.5</td>
<td>9.5</td>
<td>9.5</td>
<td>9.5</td>
</tr>
<tr>
<td>Density @ 20°C</td>
<td>1.052</td>
<td>1.039</td>
<td>1.016</td>
<td>1.080</td>
</tr>
<tr>
<td>Kinematic Viscosity (cSt) 0°C</td>
<td>9.1</td>
<td>8.5</td>
<td>3.6</td>
<td>12</td>
</tr>
<tr>
<td>Kinematic Viscosity (cSt) 20°C</td>
<td>4.0</td>
<td>3.1</td>
<td>1.7</td>
<td>7.8</td>
</tr>
<tr>
<td>Kinematic Viscosity (cSt) 40°C</td>
<td>2.2</td>
<td>1.8</td>
<td>1.1</td>
<td>3.9</td>
</tr>
<tr>
<td>Pour Point °C</td>
<td>-30</td>
<td>-24</td>
<td>-3</td>
<td>&lt;-50</td>
</tr>
</tbody>
</table>

For further recommendations, technical information, Health & Safety data sheets, OEM or environmental approvals, email wigansales@macdermid.com
Environmental Information

MacDermid maintains worldwide environmental approvals and can offer Subsea Production control fluids suitable for use in every exploration and production region around the world. The current environmental status of Pelagic 100 fluids in your area can be obtained from our environmental specialists.

Storage

Pelagic 100 fluids should be stored in dry conditions, ideally out of direct sunlight. Normal storage temperature range is 5 to 40°C.

Material Compatibility

Pelagic 100 fluids contain performance additives which ensure high levels of compatibility with materials typically used in subsea production control equipment. Extensive material compatibility tests have been performed with Pelagic 100 fluids.

| Ferrous metals (cast iron, carbon steel, ..................) | Compatible |
| Low & high alloy steels, stainless steels... | |
| Non-ferrous metals (copper, brass, bronze ................) | Compatible with alloys typically used in subsea production control equipment. Avoid Zn, Cd, Pb and Mg metals. Aluminum should be hard anodized. |
| and other metals and alloys* | |
| Coatings and ceramic materials ........................................ | Compatible with standard NBR, HNBR, FFKM, VMQ/FMVQ, CR, TFE/PTFE, PEEK. Avoid porous coatings. Compatible with most ceramic parts. Check coatings |
| Packaging & sealing materials ......................................... | Compatible with standard NBR, HNBR, FFKM, VMQ/FMVQ, CR, TFE/PTFE, PEEK. Some FKM & AU/EU/PU have proven to be incompatible |
| (elastomers and thermoplastics*) | |
| Umbilical hose liner thermoplastics ............................... | Compatible with Nylon 11, PE and Polyether ester copolymers |
| Absorbent gasket materials ............................................ | Avoid cork, leather, cotton impregnated materials |
| Paints ................................................................. | Avoid painting internal surfaces |
| Paints ................................................................. | Cured epoxy, phenolic and nylon based paints are satisfactory. Avoid less resistant paints as they soften. Wash spillages immediately with water |
| Filter elements ...................................................... | Polypropylene and glass fiber filter elements recommended over paper filters |

* As material compatibility varies from compound to compound and supplier to supplier, consult supplier for recommendations or request specific compatibility tests.

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