MP-1™
REFERENCE
PERFORMANCE RESULTS

MP-1 is similar in handling/use to 100% polyester tails, with important benefits. MP-1’s construction leads to decreased water retention, resulting in lower in-use weight for deck hands. Overall, strength and cost-per-moor beat 100% polyester in lab and field testing:

**MP-1 FIELD TRIALS**

**BACKGROUND**
- Common issue with pulled yarns and snags with 100% polyester line
- Used ropes take on a “wet dog” appearance
- Average historical 100% polyester line residual strength at 18 months retirement is 58% of minimum break strength

**TRIAL ROPES**
- Four 100% polyester tails per vessel
- Four MP-1 tails per vessel

**TESTING PLAN** STARTED SEPT./OCT. 2015
- Remove two 100% polyester tails and two MP-1 tails at 6 months AND 18+ months use
- Inspect and test for residual strength

**LAB EVALUATION**
- Dock-side abrasion testing showed, after 42 miles of wear (simulated), MP-1 had 89% residual strength, vs 73% held by 100% polyester line

**FIELD TRIALS**
- 6-month on-vessel testing showed MP-1 with 90–91% of residual strength, while 100% polyester had 65% residual strength
- 18+ month on-vessel testing showed MP-1 with 68–78% of residual strength, while 100% polyester had only 51–54%

MP-1 exceeds OCIMF recommended residual strength at retirement. 100% polyester lines fall below OCIMF recommended residual strength at only 8 months.

**COST PER MOOR**

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<tr>
<th></th>
<th>MP-1</th>
<th>100% POLYESTER</th>
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<tbody>
<tr>
<td>DIAMETER STRENGTH (pounds)</td>
<td>3 INCH DIAMETER 208,000 LB MBS</td>
<td>2-3/8 INCH DIAMETER 208,000 LB MBS</td>
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<tr>
<td>TAIL SPECS (meters)</td>
<td>22 meter over all length 1m eye &amp; 2m eye (CCEEE)</td>
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<tr>
<td>LIST PRICE</td>
<td>$1,604</td>
<td>$1,533</td>
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<tr>
<td>MOORING HOURS (To OCIMF Retirement)</td>
<td>65% MBS 8,900 HOURS</td>
<td>65% MBS 4,000 HOURS</td>
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<tr>
<td>COST PER MOOR</td>
<td>$0.18/HOUR</td>
<td>$0.38/HOUR</td>
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