NylokHD® Patch

NylokHD® Patch is a high performance self-locking nylon retention element permanently bonded onto the threads of a nut via a special application technique. NylokHD® Patch will provide greater reusability, and reduced torque scatter. When the patch is engaged, it creates a wedging action between the nut and mating part, compressing the nylon and promoting tight metal-to-metal contact opposite the patch. This metal-to-metal contact provides a positive resistance to vibration and loosening. Since nylon has great memory characteristics, this locking element is reusable. NylokHD® Patch can be applied to nuts of any style or plating. A wide range of nut sizes can be processed.

Technical Data — NylokHD® Patch

- Color — blue / orange (special colors available upon request)
- Dry Wedge — immediate locking (no cure time)
- Standard Temperature Range — -56°C (-70°F) to 121°C (250°F)
- NytempHD® High Temperature Range — -56°C (-70°F) to 232°C (450°F)
- Shelf-Life indefinite

Advantages

- Allows the use of a shorter nut and bolt, providing lighter assemblies
- Can be used with a mid-range of plating and metals, eliminating the need for cadmium
- Usable on any grade or style of nut
- Meets prevailing torque requirements of IFI 100/107, NASM 25027 and unique OEM requirements
- Ideal for aerospace and commercial vehicle industry where weight is critical
- Exceptional vibration resistance
- Highly reusable
- Re-adjustable after original installation
- Wide variety of patch coverages available
- Environmentally friendly, non-toxic
- Torque values can be customized to meet your requirements

(continued)
NylokHD® Patch

Advantages (continued)

- Does not damage finish on mating parts
- Resistant to most lubricants, fuels, hydraulic fluids and commercial solvents
- No metal removal to reduce fastener strength or performance

TYPICAL TORQUE PERFORMANCE RESULTS (M16) NM

<table>
<thead>
<tr>
<th>LOCKING TYPE</th>
<th>PREV. ON</th>
<th>1ST OFF</th>
<th>5TH OFF</th>
<th>CLAMP TORQUE</th>
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<tbody>
<tr>
<td>Nylon Insert</td>
<td>Mean 12.5 (CPK 14.05)</td>
<td>7.4</td>
<td>3.9</td>
<td>122.9</td>
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<tr>
<td>All Metal</td>
<td>Mean 25.6 (CPK 1.16)</td>
<td>12.5</td>
<td>5.3</td>
<td>119.5</td>
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<td>NylokHD® Patch</td>
<td>Mean 22.2 (CPK 1.74)</td>
<td>11.1</td>
<td>6.2</td>
<td>90.8</td>
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<tr>
<td>ASME B18.16M</td>
<td>42 Max</td>
<td>6.0 Min</td>
<td>4.0 Min</td>
<td>56,960 Nm</td>
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