

MECHANICAL LOCKING AND THREAD SEALING

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)

INNOVATION™

Every fastening task comes with its own set of challenges – locking, sealing, high temperatures, thread contamination or any combination of these. When these challenges slow product development of the design process, Nylok engineers provide INNOVATION™ services – the knowledge and resources to uncover solutions that balance cost, manufacturability and environmental concerns.

As a supply chain partner, Nylok products serve a global network of customers in a diverse range of industries – automotive, aerospace/defense, heavy machinery/truck, electronics, weaponry and specialty applications. Nylok solves fastener problems from NASA applications to the small home appliance industry, processing more than 10 billion parts per year – the global leader in fastener processing.





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

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



Global Headquarters Research & Development Processing Facility

15260 Hallmark Court
Macomb, MI 48042-4007
586.786.0100
sales@nylok.com
nylok.com

Processing Facilities

California

Anaheim, CA 92801-6738
714.635.3993 | 888.226.9565
ISO 9001:2015
QPL 18240
QSLM Approved
aerospacenylok.com

Illinois

Lincolnwood, IL 60712-3985
847.674.9680 | 800.446.5956
ISO 9001:2015
QPL 18240
nylok.com

New Jersey

Hawthorne, NJ 07506-0651
973.427.8555 | 800.276.9565
ISO 9001:2015
QPL 18240
aerospacenylok.com

Mexico

Apodaca, NL, Mexico 66645
+52 (81) 4162 4990
ISO 9001:2015
nylok.com



A Marmon/Berkshire Hathaway Company