

# MECHANICAL LOCKING AND THREAD SEALING

## NYLOK® BLUE PATCH TORQ-PATCH®

### Prevailing Torque Locking Element



NYLOK® blue patch TORQ-PATCH® is a self-locking element comprised of nylon permanently bonded onto the threads of a fastener. When the NYLOK® blue patch TORQ-PATCH® is engaged, it creates a wedge between the fastener and mating part compressing the nylon and creating metal to metal contact opposite the patch. This metal to metal contact results in a positive resistance to vibration and loosening. Since nylon has great memory characteristics, this locking element can be reused several times.

#### Technical Data — NYLOK® Blue Patch TORQ-PATCH®

- Color — blue/red (special colors available upon request)
- Dry Wedge — immediate locking
- Temperature Range -56°C (-70°F) to +121°C (+250°F)
- Shelf-Life indefinite
- NYLOK® blue patch is also referred to as TUF-LOK®

#### Typical Performance Results (M10 plain finish – IFI 524)

- Prevailing-On Torque 5.0 – 10.0 Nm
- First Removal Prevailing-Off Torque (without preload) min. 2.5 – 5.0 Nm
- Fifth Removal Prevailing-Off Torque min. 1.8 – 2.8 Nm

#### Advantages

- Reusable/adjustable
- Exceptional vibration resistance
- Resistant to lubricants, fuel, hydraulic fluids and most commercial solvents
- Can be applied to any size or thread configuration of a fastener
- Bonds to a broad range of fastener finishes

**(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.





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### Advantages (continued)

- Complies with or exceeds IFI, DIN and major OEM specifications
- Provides a seal for threads
- Parts are ready for assembly
- Precise thread coverage on every part
- Can be applied on external and internal threaded fasteners
- Is not affected by high humidity conditions
- Environmentally friendly/non-toxic
- 180° (standard) or 360° (optional) radial coverage
- Torque can be adjusted to meet specific applications
- Cost effective
- No metal removal to reduce fastener strength or performance

COMPANY NAME	SPECIFICATIONS
FCA	PF5144 PF6157 PF6158
FORD	ES 382101-S101 ES-N800688-S101 ES-384103-S-A WA970
GM	GM6189P GMW16722
MILITARY	MIL - DTL - 18240F NASM15981
CATERPILLAR	IE-2511
JOHN DEERE	JDT905F
MACK TRUCK	10ASMI 3&6AXS5
NAVISTAR	BM - 4.101
IFI	IFI - 100/107 IFI - 124 IFI - 524
DIN	DIN 267 PART 28



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