### MECHANICAL LOCKING AND THREAD SEALING

# NYLOK® TORQ-PATCH® LOCKNUT

## **Prevailing Torque Locking Element**

NYLOK® TORQ-PATCH® locknut is a self-locking element comprised of nylon permanently bonded into the threads of a nut. When the NYLOK® TORQ-PATCH® locknut is engaged it creates a wedge between the nut 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® TORQ-PATCH® Locknut

- 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® TORQ-PATCH® locknut is also referred to as TUF-LOK®

## Typical Performance Results (M10 plain finish)

- 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 18 28 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 larger than a M6/1/4" nut
- Bonds to a broad range of fastener finishes

(continued)

### INWVATION"

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  $INNYVATION^{TM}$  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 in every part
- 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	PF-6180
FORD	WE950
GM	GM6189P
	GMW16722
MILITARY	MIL - DTL - 18240F
	NASM25027
CATERPILLAR	IE-2511
IFI	IFI - 100/107
	IFI - 155
	IFI - 555
	IFI - 560



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