

# Nylon Locking Patch

## Technical Data Sheet



At Inlex we offer Europe's widest range of pre-applied locking and sealing solutions, eliminating the need for secondary locking devices, hand-applied liquid adhesives, or sealing tapes. The Inlex Nylon anti-vibration locking patch, when applied is permanently fused onto the screw thread of the parent component, and increases the prevailing removal torque, allowing the screw to be locked in any position upon assembly.

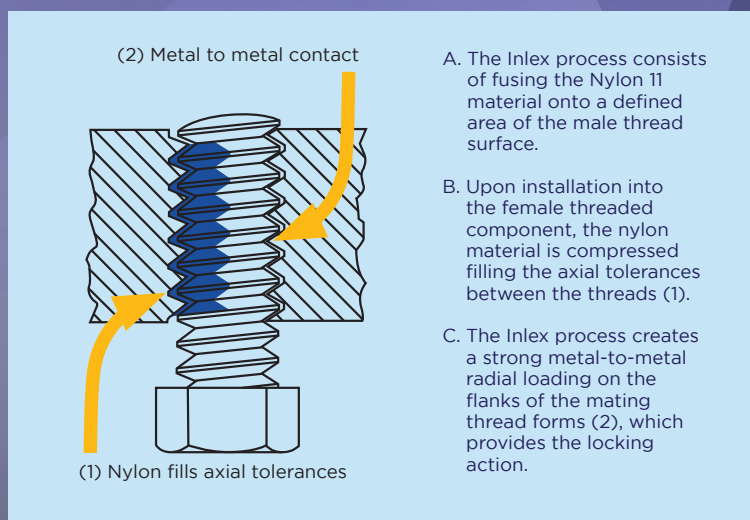
### Tuflok®

Inlex are proud partners of patching giant Nylok, as the sole UK license holder for Nylok's Tuflok® blue Nylon Torq-Patch. Tuflok® Nylon patches provide an immediate ready-to-use, adjustable and reusable anti-vibration self-locking feature for many threaded fastener types. Tuflok® provides a consistent, precise, cost effective, chemical-resistant thread lock compared to traditional manually-applied products. When the Tuflok® patch is engaged, it creates a wedge between the fastener and mating part, compressing the Nylon and creating metal to metal contact on the opposing face, giving positive resistance to any vibration and loosening. As it is inert, it may be re-used several times

### Inlex 180 Nylon anti-vibration locking patch

Inlex 180 nylon anti-vibration locking patch, is a coloured nylon 11 feature permanently fused to the screw thread. This process provides excellent vibration resistance and torque performance for all applications requiring controlled loading and re-usability. Inlex nylon anti-vibration locking patch, is effective, whether or not the fastener is fully seated, making it ideal for applications where subsequent adjustment is required.

### THE INLEX PRINCIPLE



### Inlex 360 Nylon anti-vibration locking patch

Inlex 360 nylon anti-vibration locking patch, gives full circumference coverage (completely around the thread) and is suitable for applications requiring a fully re-usable high pressure seal against liquid or gas.

### Industry Approvals

Our Inlex Nylon anti-vibrational locking patch products are approved to a wide range of industry standards including:-

DIN 267 part 28

BS 7715:1994

IFI 124 & 524

General Motors GM6189P

Ford WA970

Jaguar/LandRover.STJLR.60.5020.A970

Perkins PMS.P.I.07

and many more...

### ADVANTAGES

- Blue or Red with other bespoke colours to order
- High temperature Orange patches with 260°C capability are available
- Re-usable
- Anti-vibrational
- Variable patch length and position
- Eliminates secondary locking features such as nuts, washers, etc
- Automatically locks in any position
- Plate and Patch service available
- Resistant to chemicals including alcohol, petroleum, oil, kerosene, diesel fuel and hydraulic fluids

# Nylon Locking Patch

## Technical Data Sheet



Product	Colour	Type	Max Patch Length	Standard Patch Length	Standard Patch Lead	Storage Life @ Ambient Conditions	Operating Temp (°C)	Sealing Capacity 360°	Re-Usability	Size Range
Standard	Blue/Red	Nylon	40mm	4-6 Pitch	1-2 Pitch Lead	Indefinite	-56+150°	>15 BAR (M10 Thread)	>5	M1.6-M30
High Temp	Orange	Nylon	40mm	4-6 Pitch	1-2 Pitch Lead	Indefinite	-56+260°	>15 BAR (M10 Thread)	>5	M1.6-M30

\*120°C for continuous usage 150°C possible to intermittent use subject to testing.

We currently process a range of Headed Components, Studs, Plugs and similar size parts. We can apply our coating to ferrous or non-ferrous materials (steel, aluminium, stainless steel or brass). We can offer a complete one-stop shop plate and patch service. This is a general guide to the products we currently process. Other colours are available on request.

### STANDARD TYPICAL TORQUE CHARACTERISTICS TO BS7715:1994

Thread Sizes	Prevailing Torque		
	1st Installation	1st Removal	5th Removal
ISO Metric	Nm (max)	Nm (min)	Nm (min)
1.6	0.10	0.01	0.004
2	0.20	0.02	0.01
2.5	0.40	0.05	0.03
3	0.60	0.14	0.06
3.5	0.90	0.22	0.11
4	1.20	0.26	0.16
5	2.30	0.36	0.23
6	3.0	0.45	0.30
8	10.0	0.9	0.58
10	14.0	1.80	1.10
12	21.0	2.6	1.50
14	30.0	3.60	2.30
16	40.0	5.00	3.40
20	60.0	8.0	5.50
22	75.0	10.50	7.00
24	90.0	13.0	8.50

Torque Performance can be varied to suit specific application requirements. These figures may vary according to material specification and are intended as a guide. Torque characteristics for imperial thread sizes available upon request.

### Recommendations

#### Hole Preparation

In all cases the female thread of the mating components should have the lead thread de-burred or countersunk to avoid damage to the patch material.

#### Thread Preparation

To obtain optimum patch performance both male and female threads should be in accordance with class 6g/6H (metric) or class 2 a/b (unified). High installation speeds can create galling of the threads affecting product performance.

#### Finishes

Inlex Nylon patches can be applied to most popular plated finishes, as well as polymer and organic coatings.

#### Customer free issue components

Parts manufactured from non-ferrous material should be supplied free from any surface contaminants. Variations in material structure can affect heating capability of the part during processing, which may result in torque variation.

**Pre-Production samples are evaluated and then processed free of charge**

Information presented in this data sheet is considered reliable, but conditions and methods of use, which are beyond our control, may modify results. Before these product are used, the user should confirm their suitability.

We cannot accept liability for any loss, injury or damage which may result from its use. We do not warranty the accuracy or completeness of any such information whether orally or in writing. We reserve the right at anytime and without notice to update or improve products and processes and our information concerning the same. Rimlex is a registered trade mark of Inlex Locking Ltd.