



PSM can offer a wide range of thread locking and sealing solutions, eliminating the need for secondary locking devices. Nylon Patch when applied, is permanently fused onto the thread of the screw or threaded component. The patch increases the prevailing torque and provides excellent vibration resistance, allowing the screw to be locked in any position when assembled.

## ADVANTAGES

- Visible thread locking device
- Permanently attached
- Re-useable
- Anti-vibrational
- Variable patch position and length
- Can be specified to seal
- Chemical resistant
- Free running thread start

## DESIGN GUIDE

### THREADED HOLE PREPARATION

All female mating threads should have an adequate thread lead to prevent damage to the Nylon Patch during assembly.

### THREAD PREPARATION

To obtain optimum patch performance, both the male and female threads should be in accordance with the relevant International thread class.

### FINISHES

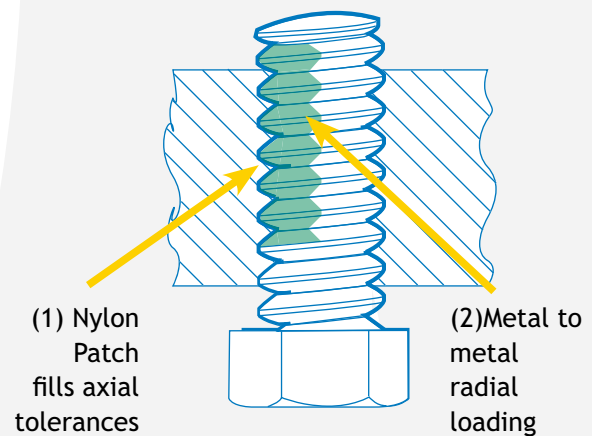
Nylon Patch can be applied to most popular plated finishes, including polymer and organic coatings.

The nylon patch is fused onto a defined area of the male thread.

During installation, the nylon patch is compressed, taking up the tolerance between the male and female threads. This creates a strong metal to metal radial loading on the flanks of the thread forms, which provides the locking action.



## NYLON PATCH PRINCIPLE



## PRODUCT RANGE

### NYLON PATCH 180

The Nylon Patch 180 is permanently fused to an area, covering approximately 180° of the circumference of screw thread. The process provides excellent vibration resistance for applications requiring controlled thread-locking and re-usability.

### NYLON PATCH 360

The Nylon Patch 360 is permanently fused to the full circumference of the screw thread and is suitable for applications requiring a fully re-usable high pressure seal against liquid or gas.

## TECHNICAL DATA

Product	Type	Max Patch Length	Standard Patch Length	Standard Patch Lead	Storage Life @ Ambient Conditions	Operating Temp (0°C)	Standard Capacity 360 Patch	Re-Usability	Size Range
Nylon Patch	Nylon	40mm	4-6 Pitch	1-2 Pitch Lead	Indefinite	-56 +150	>15 BAR (M10 Thread)	>5	M1-M30

We can apply Nylon Patch to ferrous or non ferrous materials ( Steel, Aluminium, Stainless Steel or Brass).

## STANDARD TORQUE CHARACTERISTICS

Thread Sizes	First Installation		First Removal		Fifth Removal	
	Prevailing Torque Max.		Min.		Min.	
	lbf/in	Nm	lbf/in	Nm	lbf/in	Nm
ISO Metric						
1.6	0.9	0.10	0.1	0.01	0.035	0.004
2	1.8	0.20	0.2	0.02	0.10	0.01
2.5	3.5	0.40	0.4	0.05	0.3	0.03
3	5.3	0.60	1.2	0.14	0.50	0.06

Torque performance can be varied to suit specific application requirements. The figures shown above are typical and are intended as a guide to performance.

## INDUSTRY APPROVALS

Nylon Patch can be supplied to meet a wide range of industry standards including: DIN 267 part 28, BS7715:1994, IFI # 524, General Motors, Ford WA970, Rover RES.22.FP.02, Jaguar JFS.02.01.04 Plus many other industry approvals.

Where the Nylon Patch has to meet a particular standard, this must be specified when requesting a quotation and when placing an order.

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we have the solution!