



Advanced Fastening and Sealing Technologies

PRE-APPLIED ND STRIP®

ND Strip processing makes fasteners self-locking and self-sealing, but adjustable and removable. Normally a resilient bar of nylon inserted into a slot milled in fastener threads, ND Strip processing delivers outstanding performance in both high and low temperature extremes. Ideal for all types and sizes of commercial, automotive, and aerospace fasteners.



PRE-APPLIED PROCESS INFORMATION

How It Works

Customer fasteners are first sent to ND for processing. Using custom equipment we mill a slot into the fastener threads, deburr any edges, then have the part sent out for replating if necessary. Next a tough strip typically made of nylon is inserted into the slot. Completed parts are shipped back to the customer.

When assembled with a mating part the resilient nylon is compressed. This compression exerts a force 180° opposite, increasing metal to metal contact and holding the fastener in place without adhesives or thread distortion. The engineered plastic strip provides locking action in the thread instead of at the bearing surface.

Wide Adjustment Range

ND Strip processed fasteners have a wider range of adjustment and larger working area than most other locking elements due to the fact that the insert runs parallel to the length of the fastener.

Outstanding Reusability

Due to its resilience, nylon strip inserts can be adjusted and removed several times without substantially decreasing the fasteners locking ability and without damage to threads.

Resists Heat & Cold

Nylon ND Strip meets and exceeds MIL-DTL-18240F, Type L for temperatures up to +250°F (+121°C). Using other materials, ND Strip can withstand temperatures as high as +1,200°F (+649°C).

Easy to Customize Torque

ND Strip processing can be customized to meet your specific requirements by adjusting the length and diameter of the installed material.

Resists Chemicals

Nylon is virtually impervious to a wide range of chemicals, water, and motor fluids. Will not dry, shrink, or lose resiliency when exposed to commercial solvents, alcohol, gasoline, oil, caustic soda, jet fuel, and many other chemicals.

Substrate Independent

ND Strip processing is excellent for use on non-metallic fasteners where a chemical threadlocker could deteriorate the substrate.

CONTACT US

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CERTIFICATIONS & ACCREDITATIONS
AS9100:2009, Rev. C • QPL-18240F • QSLM
ITAR • ISO-9001:2008 • ISO/IEC 17025:2005
CE Directive 2006/42/EC • ISO-14121
ISO-12110-1/12110-2 • IEC-EN 60204-1

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PROCESS BENEFITS

Saves Time: ND Strip fasteners can be fed through an automated feeding device to improve your productivity and save time.

Saves Money: ND Strip processing works with virtually any fastener (standard or special). ND Strip fasteners eliminate the need for costly lock-washers, cotter pins, or castellated nuts. Achieve close fits without the expense involved in attaining close tolerances.

Quality Control: Fastener processing is done to specification, insuring consistent performance unlike bottled products.

Saves Effort: ND Strip processed fasteners greatly reduce the need for retightening.

Won't work Loose: Under most operating conditions, nylon strips are unaffected by vibration or reversal of stress.

ND STRIP APPLICATIONS

Military fasteners, Aerospace

APPROVED SPECIFICATIONS

Meets or exceeds the performance requirements of the following specifications and/or standards:

- U.S. Military: MIL-DTL-18240F, MIL-F-18240E, MIL-N-25027
- Chrysler: PF-5144, PF-6157, PF-6158
- Ford: ES-382101-S100, ES-378813-S100

PROCESSING NOTES

- ND Strip processing is also available with KEL-F®, Vespel®, Copper, Stainless Steel, and PTFE materials for non-standard applications.
- Strips are normally positioned one to three threads back from the end of a fastener to assure ease of starting. Special positioning can be specified for specific applications. Strip location and diameter can be tailored to fit your needs.

PRE-APPLIED SERVICE

Step 1 - Process Selection: Our sales and R&D staff will help you find the right process to meet your performance specifications.

Step 2 - Shipping: Once a selection has been made, have your fasteners shipped to one of our worldwide processing centers.

Step 3 - Processing: Utilizing custom, high-speed equipment, we apply the necessary materials to your exact specification.

Step 4 - Delivery: Once processing is complete, parts are shipped back ready for distribution or assembly.