

# ND NAS & MS FASTENERS

## Locking & Sealing

ND Industries® is ISO9001:2000 / AS9001B / QPL-18240F Listed / QSLM Registered



### DESCRIPTION:

□ ND Industries offers the broadest range of top quality self-locking, self-sealing processing methods and fasteners available today for both military and commercial applications. At ND, we will apply virtually any of our products to your fasteners at any one of our eight regional service centers or supply you with pre-processed fasteners. Make ND your QPL-approved source for the following fastener products:

□ **ND Pell-It®:** A special, tough nylon plug, inserted into a drilled hole, which makes any threaded fastener self-locking and self-sealing while leaving it fully adjustable. Its high internal strength and resiliency help resist deformation after repeated use. ND Pell-It is also available in Vespel and KEL-F\* and can be used in virtually any application at any temperature.



□ **ND Strip®:** A tough bar of Nylon, KEL-F\* or Vespel, inserted into a milled slot on a threaded fastener, which makes it self-locking and self-sealing. Ideal for military and commercial fasteners, ND Strip performs well in both high and low temperature extremes. Its compressibility, resiliency, and strength allow repeated removals or adjustments. ND Strip is also available in Vespel and KEL-F\* and can be used in virtually any application at any temperature.



□ **ND Patch®:** ND Patch and 360° Ring-Patch processes make threaded fasteners of all sizes and configurations self-locking and self-sealing, while leaving them fully adjustable. Patch is completely dry and fused to the fastener, requiring no curing time after installation. Its internal strength and resiliency remain high, even after repeated uses.



- ND Strip® & ND Pell-It® can be produced burr-free beyond the normal Mil-F-18240 requirements.
- ND can supply fasteners with or without self-locking and sealing devices on certain fastener types. All fasteners are domestically manufactured and are completely lot traceable.

**ND products meet or exceeds the performance requirements of the following specifications and/or standards:**

#### **MIL-F-18240\*\*:**

250° self-locking element for Military Specification Fastener, internally and externally threaded.

#### **NAS 1283:**

Fasteners, male threaded, self-locking.

#### **MS 15981:**

Fasteners, externally threaded, self-locking.

*For a complete list, contact ND INDUSTRIES.*

## NAS & MS Self-locking Fasteners:

Print	No.	Description	Print	No.	Description
NAS	608	SHCS	MS	18065	Setscrews, Flat Pt. - Alloy
NAS	662	100° Flat Hd.	MS	18066	Setscrews, Flat Pt. - 18-8
NAS	1081	Setscrews - Ck. Pt. Size	MS	18067	Setscrews, Cone Pt. - Alloy
NAS	1161-		MS	18068	Setscrews, Cone Pt. - 18-8
	1168	100° Flat Hd. - Torque Set	MS	21090	Pan Hd. Screw, Steel
NAS	1171-		MS	21091	100° Flush Hd., Bolt, Steel
	1178	Pan Hd. - Torque Set	MS	21092	100° Flush Hd., Bolt, Cres.
NAS	1181-		MS	21093	100° Flat Hd., Screw, Steel
	1188	Flat Fillister Hd. - Torque Set	MS	21094	Hex Hd. Bolt, Steel
NAS	1189	100° Flat Hd. - Full Threaded	MS	21095	Hex Hd. Bolt, Cres.
NAS	1190	Pan Hd. - Full Threaded	MS	21096	Pan Hd. Bolt, Steel
NAS	1191	Flat Fillister Hd. - Full Threaded	MS	21097	Pan Hd. Bolt, Cres.
NAS	1216	Pan Hd. - Hi Torque Recess Full Thread	MS	21098	12 Pt. Hex Hd., Alloy Steel
NAS	1217	Pan Hd. - Hi Torque Recess Short Thread	MS	21099	12 Pt. Hex Hd., Cres.
NAS	1218	Pan Hd. - Hi Torque Recess	MS	21262	SHCS, Alloy Steel
NAS	1219	100° Flush Hd. Hi Torque Recess Full Thread	MS	21295	SHCS, Cres.
NAS	1220	100° Flush Hd. Hi Torque Recess Short Thread	MS	51021	Setscrews, Cup Pt., Cres-UNC Threads
NAS	1221	100° Flush Hd. Hi Torque Recess	MS	51023	Setscrews, Cup Pt., Cres-UNF Threads
NAS	1223-		MS	51029	Setscrews, Flat Pt., Cres-UNC Threads
	1235	Hex Hd. Bolt, Shear	MS	51031	Setscrews, Flat Pt., Cres-UNF Threads
NAS	1351	SHCS	MS	51038	Setscrews, Cone Pt., Cres.
NAS	1352	SHCS	MS	51095	Hex Hd. Gr. 5 UNC Threads
NAS	1635	Pan Hd. - Full Threaded	MS	51096	Hex Hd. Gr. 5 UNF Threads
NAS	1741	100° Flat Hd. Full Thrd. - Patch Type	MS	51963	Setscrew, Cup Pt., Alloy UNF Threads
NAS	1742	Pan Hd. Full Thrd. - Patch Type	MS	51964	Setscrew, Cup Pt., Alloy UNF Threads
NAS	1743	Flat Fillister Hd. Full Thrd. - Patch Type	MS	51965	Setscrews, Flat Pt., Alloy UNC Threads
NAS	1283	Self-Locking Male Fastener Specification which relates back to MIL-F-18240 and MS 15981 (limitations of use.)	MS	51966	Setscrews, Flat Pt., Alloy UNF Threads
MS	18153	Hex Hd. Capscrew, Gr. 8, UNF	MS	51973	Setscrew, Cone Pt., Alloy UNC Threads
MS	18154	Hex Hd. Capscrew, Gr. 8, UNC	MS	51974	Setscrew, Cone Pt., Alloy UNF Threads
MS	18063	Setscrews, Cup Pt. - Alloy	MS	90727	Hex Hd., Gr 8 UNF Threads
MS	18064	Setscrews, Cup Pt. - 18-8	MS	90728	Hex Hd., Gr 8 UNC Threads

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\* KEL-F is a registered trademark of Minnesota Mining and Manufacturing Co.

\*\* Mil-F-18240 requires yellow nylon

**For more information on ND NAS & MS Fasteners, or any of ND Industries' other quality fastening products, contact your nearest ND Service Center:**

**ND Western Fastener Processing Division**  
13929 Dinard Avenue  
Santa Fe Springs, California 90670  
Phone: 562-926-3321  
FAX: 562-926-4266

**ND Midwestern Fastener Processing Division/Detroit**  
1000 North Crooks Road  
Clawson, Michigan 48017  
Phone: 248-655-2529  
FAX: 248-655-2562

**ND Eastern Fastener Processing Division**  
128-2 Bauer Drive  
Oakland, New Jersey 07436  
Phone: 201-651-1500  
FAX: 201-651-1400

**ND Southwestern Fastener Processing Division**  
3611 Dalworth Street  
Arlington, Texas 76011  
Phone: 817-633-2788  
FAX: 817-649-7730

**ND Midwestern Fastener Processing Division/Cleveland**  
9051 Dutton Drive  
Twinsburg, Ohio 44087  
Phone: 330-425-3167  
FAX: 330-425-3065

**ND Industries Asia, Inc./Taiwan**  
4-5 Lane 832 An-Jau Road  
Yen-Chou  
Kaohsiung, Taiwan R.O.C.  
Phone: 886-7616-7733  
Fax: 886-7616-6611

**ND Midwestern Fastener Processing Division/Chicago**  
1840 Raymond Drive  
Northbrook, Illinois 60062  
Phone: 847-498-3600  
FAX: 847-498-1582

**ND Southeastern Fastener Processing Division**  
2220-C Center Park Drive  
Charlotte, North Carolina 28217  
Phone: 704-329-0033  
FAX: 704-329-0975

**ND Electronics (Kunshan) Co., Ltd.**  
395 Ye Cheng Zhong Road  
Kunshan City, China 215300  
Phone: 86-512-57765335  
Fax: 86-512-57755355

**ND Midwestern Fastener Processing Division/Rockford**  
3954 South Central Avenue  
Rockford, Illinois 61102  
Phone: 815-963-3600  
FAX: 815-963-4195



Corporate Offices

**Represented By Specialty Sales**  
**Ira Shushan 805-491-5161**  
**Robert Lopez 562-833-6234**

1000 North Crooks Road · Clawson, Michigan 48017 USA · Phone: 248-288-0000 · Fax: 248-288-0022  
Visit our web site at [www.ndindustries.com](http://www.ndindustries.com) · e-mail: [ndinfo@ndindustries.com](mailto:ndinfo@ndindustries.com)

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