

# NATIONAL AEROSPACE SUPPLY CO.

33155 CAMINO CAPISTRANO • UNIT C • SAN JUAN CAPISTRANO, CA 92675  
PHONE: (949) 240-6353 • FAX: (949) 248-5655

## NAMC MATERIAL CUTTER

### DESCRIPTION

A revolutionary new cutter for cloth (other than Kevlar), film, bleeder and peel ply. The NAMC cutter cleanly cuts graphite and fiberglass cloth without first having to place masking tape on the material.

The NAMC comes with a razor sharp, replaceable, tungsten steel cutting wheel. The cutting wheel is available with a 2 1/4", 1 3/4" or 1 1/16" diameter blade. The cutter incorporates a unique safety blade guard that is always in place. The guard retracts only when pressure to cut is applied. The cutting wheel tension is adjustable for cutting thin or thick materials.

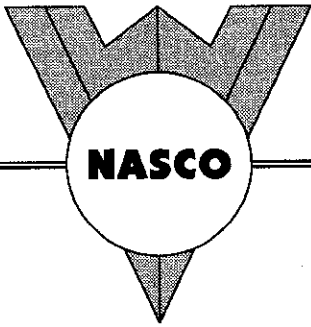
The NAMC3 and NAMC2 are used for standard cutting requirements. The NAMC1 is smaller and used for contoured and delicate cutting.

For best results, the NAMC cutter should be used in conjunction with our NAU80 cutting surface.

### PHYSICAL PROPERTIES

NA-MC3	2 1/4" diameter
NA-MC2	1 3/4" diameter
NA-MC1	1 1/16" diameter

Note: Information herein is believed to be correct based upon laboratory tests. No warranty of any kind is made except that materials supplied are standard quality. All risk and liability arising from handling, storage, and use of these products, as well as compliance with applicable legal restrictions, rests with the buyer. Buyer's remedy is limited to return and replacement of goods found to be defective due to manufacturer.



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## NAU80 POLYURETHANE CUTTING SURFACE (TABLE TOPS)

### DESCRIPTION

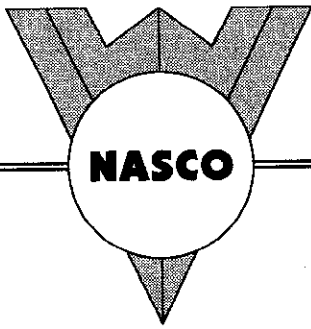
NAU80 table tops are made from a high grade cast polyurethane with shore hardness of 85A. This product provides an excellent surface for knife cutting of fiberglass, Kevlar and graphite fabrics. The self sealing property will provide a smooth working surface for a long period of time.

### PHYSICAL PROPERTIES

Table top size	To customer specification
Table top thickness	1/4", 3/8", and 1/2"
Color	To customer specification

Set-up - Remove tape holding coiled top together. Heat top to 100 degrees F for 20 minutes. Table top will now lay flat without curl.

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## **RUBBER PAD PSS 2000-2 A NON-SILICONE, UNCURED RUBBER FOR CAUL SHEET AND MANDREL APPLICATIONS**

### **DESCRIPTION**

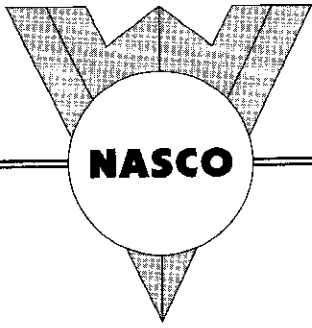
**Rubber Pad** is a .060 inch thick sheet of uncured, non-silicone rubber that can be processed into a dimensionally stable form for use as an auxiliary tooling aid such as a flexible mandrel, caul sheet or pressure intensifier in composite process applications. When reinforced with carbon or fiberglass prepreg, **Rubber Pad** functions as a pressure stabilizing system during the lamination and cure processing of advanced composite structures. By distributing vacuum bag and autoclave forces equally over the entire laminate area, **Rubber Pad** eliminates bridging, resin rich & resin starved areas, and surface wrinkling. **Rubber Pad** also provides matched tooling benefits such as dimensional control of finished parts. This high temperature, non-silicone rubber withstands repeated autoclave cycling during 350 DEG F cures.

**Rubber Pad** is processed into a stable form under heat and pressure, typically in an autoclave. A bagging scheme and procedure similar to that used for composite laminates is required to laminate **Rubber Pad**. The actual construction, number of layers used and decision to reinforce the material will vary with part geometry and application. Fabricating **Rubber Pad** caul sheets and mandrels reinforced with carbon or fiberglass prepreg is accomplished in a cocure procedure. The desired number of plies of uncured **Rubber Pad** are laid upon the mold surface or sample part. The desired number of layers of prepreg are laid upon the last **Rubber Pad** layer leaving an un reinforced border area of approximately 2 inches around the entire circumference. The prepreg is then covered with an equal number of layers of uncured **Rubber Pad** as used under the prepreg and sized to match the previous **Rubber Pad** area. Overlap and butt splicing of the **Rubber Pad** material may be required depending upon part size. It is suggested to bond **NA1000** or **Protool** to the surface of the **Rubber Pad** laminate intended to be in contact with composite laminates. This can be accomplished in the curing process of the **Rubber Pad** structure or in a secondary operation.

### **PHYSICAL PROPERTIES**

Use temperature	400 DEG F max
Sheet thickness	.060 inches
Standard roll size	48 inch x 50 ft
Storage	60-80 DEG F (RT) only
Shelf life	one year at RT from date of shipment
Cure cycle	350 DEG F, 2 HRS, 50 - 100 PSI
Specific gravity	1.15+/- .05
Tensile strength	1350 psi
Elongation	310%
Tear Resistance	155 lb/in

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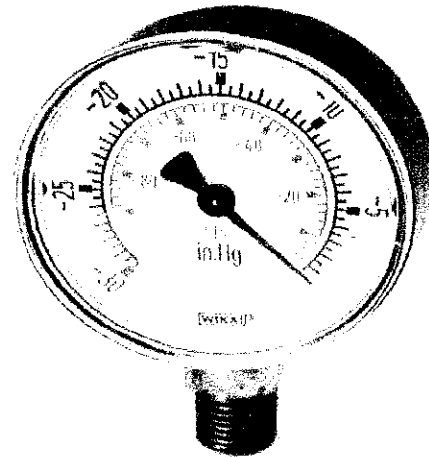
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## NAVACGUAGE VACUUM GAUGE

### DESCRIPTION

The NAVACGUAGE is an economical, dry vacuum gauge with a lightweight ABS plastic case. The dial reads in both inches of mercury and kilopascals. Accuracy is  $\pm 2\%$  of span over middle half of scale and  $\pm 3\%$  of span over first and last quarter of scale (3%/2%/3%, grade B).

- Size: 2.5"
- Range: 0-30" Hg / 0-100 kPa
- Accuracy: 3% / 2% / 3%, grade B
- Case: ABS plastic
- Connection: 1/4" male NPT



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