

## Graflock 3243 Nutlock

### I. Product Description

*Graflock 3243 is designed for the sealing and locking of threaded fasteners which may require easy disassembly with standard handtools. The product is a single component anaerobic, medium strength thixotropic, acrylic based threadlocker Graflock 3243 nutlock cures when confined in the absence of air between close fitting metal surfaces and prevents leakage and loosening from vibration and shock.*

### II. Properties

- Ideal for thread locking small screws from loosening under vibration.
- Ideal for fasteners diameters of ¼" to ¾" (6 to 20 mm) and smaller.
- Locks and seals threaded joints-nuts, screws and studs with improved oil resistance.
- This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be use with chlorine or other strong oxidising materials.

### III. Technical Information

Chemical Base:	Dimethylacrylate ester
Color:	Blue
Apperance:	Liquid
Specific gravity( 25°C):	1,08 g/cm <sup>3</sup> Viscosity : 1200-3000 cPs
Operating Temperature:	-54 °C to 150 °C
Breakaway Torque M10 black oxide steel bolts & nuts (ISO 10964):	20 Nm
(After 24 h. 20-25 °C)	
Prevail Torque M10 black oxide steel bolts & nuts (ISO 10964):	7 Nm
(After 24 h. 20-25 °C)	

#### Chemical Resistance:

Chemical	Temp.	% Initial Strength Retained		
		100 hours	500 hours	1000 hours
Acetone	22 °C	100	100	85
Ethanol	22 °C	100	85	85
Motor Oil	125 °C	95	95	95
Gasolin	22 °C	100	100	95
Brake Fluid	22 °C	100	100	100
Water/Glycol(50/50)	87 °C	95	80	80

#### **IV. Application Details**

##### *For Assembly*

- *For optimum performance surfaces should be clean and free of grease (internal and external).*
- *If the material is an inactive metal or the cure speed is too slow, use an activator.*
- *Shake the product thoroughly before use*
- *Apply several drops to the bolt & nut.*
- *Assemble and tighten as required.*
- *To prevent the clogging of the nozzle, do not let the tip touch metal surface during application.*

##### **For Disassembly**

- *Remove with standard hand tools*
- *In circumstances where hand tools do not work, use localized heat to bolt or nut, disassemble while hot.*

##### **For Clean Up**

- *To remove cured product use a combination of solvent and abrasion such as a wire brush.*

#### **V. Packaging**

*50ml bottle*

#### **VI. Shelf Life**

*Anaerobic adhesives shall be ideally stored in a cool, dry place in unopened containers at a room temperature between 8 °C to 21 °C. Please do not return any unused material to its original container. Shelf life is 12 months*

#### **VII. Caution**

*Keep out of reach of children.*

*Avoid contact with skin and eyes. Use gloves before application*

*Keep out of freezing, direct sunlight.*

*Do not try to remove forcibly.*

#### **VIII. Health and Safety**

*For more information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing, physical, ecological, and toxicological and other safety related data*

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