



\*Patent Pending\*

Advance Products & Systems, Inc.



# Radolid® Bolt Protection Caps

Now With Volatile Corrosion Inhibitors (VCI)

# The quick , easy and cost effective way to apply nut and bolt protection.






**Radolid® Protection Caps** are used to eliminate corrosion of nuts & bolts, allowing quick removal when necessary. These caps are easily installed by pressing onto the bolted joint by hand. The barbed edge snaps in place, preventing the caps from accidentally being removed. Manufactured of low density black or white UV-resistant polyethylene, these caps are reusable and will keep nuts & bolts corrosion free for years.



## Range of Types

## Type



	<b>RADOLID-LOCKING CAPS®</b>	<b>SW</b>
	<b>RADOLID-TELESCOPIC CAPS®</b>	<b>TSW</b>
	<b>RADOLID-WEDGE CAPS®</b>	<b>KSW</b>
	<b>RADOLID-BOLT CAPS®</b>	<b>BM</b>
	<b>RADOLID-BOLT CAPS®</b> ONLY FOR THREADS	<b>B</b>



## Type ESW/EBM



The cap is produced in a two component molding. These new caps feature a captive, soft sealing lip made from Evoprene; an elastic, flexible material that can be adapted to suit the base, hence providing an excellent seal. The cap body is made from a more solid material, guaranteeing a reliable and stable hold.

- **Suitable for offshore applications & other high humidity industries.**
- **Comes in a number of different designs.**
- **Can be supplied for locknuts & threaded ends.**

### KleerGel® Corrosion Inhibitor

KleerGel® Corrosion Inhibitor is a heavy-duty, synthetic lubricant. It is non-staining, non-toxic, non-flammable and free of contamination, allowing the KleerGel® to maintain a good viscosity over wide temperature ranges (-50°F to 500°F) It is FDA approved and can be utilized on potable water systems or food processing equipment without contaminating the water or other products.

#### Benefits of KleerGel®

- \* Lasts four times longer than petroleum based lubricants
- \* Reduces energy consumption by decreasing friction
- \* Machinery shows less wear & will run cooler thereby increasing its life expectancy
- \* Excellent adhesion - will not drip, run or evaporate
- \* Dielectric - will not conduct electricity
- \* Will not damage wood, leather, plastic, fabrics, metals or painted surfaces
- \* Hydrophobic - 100% waterproof and will not wash out with hot, cold or salt water

Available in black, clear, white, red, grey, chrome & other special colors upon request.

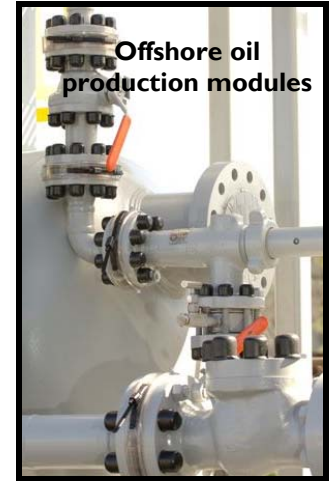


## Thermoplastic synthetic materials for Radolid® Caps



Water treatment plant

Type of Plastic	Density	Hardness	Temperature Resistance		Breakdown Voltage
			Intermit	Constant	
<b>Standard Materials</b>					
LD-PE	0.918	96 A / 45 D	212 °F / 100 °C	176 °F / 80 °C	100 KV / mm
Resistant to:	Grease, oils, alcohol, fuels, non-oxidizing acids and lyes, water and sea water.				
<b>NOT Resistant to:</b>	Oxidizing agents, chlorohydrocarbons.				
<b>Special Materials</b>					
Polypropylene PP	0.905	98 A / 62 D	266 °F / 130 °C	212 °F / 100 °C	90 KV / mm
Resistant to:	Grease, oils, alcohol, fuels, detergents, water and sea water, watery solutions; such as solutions of salts, acids and lyes.				
<b>NOT Resistant to:</b>	Aromatic, halgenised hydrocarbons, oxidizing agents; such as nitric acid.				
Polysterelastomer	1.250	98 A / 72 D	320 °F / 160 °C	248 °F / 120 °C	23 KV / mm
Resistant to:	Grease, oils, alcohol, fuels, detergents, water and sea water, aliphatic and aromatic compounds, 50% sulphuric acid.				
<b>NOT Resistant to:</b>	Hydrochloric acid, fluoric acid, chlorine gases.				
Polyamid PA 66	1.140	99 A / 70 D	428 °F / 220 °C	320 °F / 160 °C	50 KV / mm
Resistant to:	Grease, oils, alcohol, fuels, detergents, water and sea water, solvents, lyes.				
<b>NOT Resistant to:</b>	Acids, oxidizing agents.				
ETFE	1.700	99 A / 70 D	428 °F / 220 °C	302 °F / 150 °C	140 KV / mm
Resistant to:	Grease, oils chlorine, nitric acid, hydrochloric acid.				
<b>NOT Resistant to:</b>	Fluorine, fluorine hydrocarbon, fluorine acids.				



Offshore oil production modules



Wind turbine



Offshore oil production equipment



Offshore gas facility

### Radolid® Specifications

Size Range: 1/4" to 3 3/4" diameter bolt or stud.... Min height 3/8" to 8"  
 Standard Operating Temperature (F°).....Min (-84)  
 Standard Operating Temperature (F°).....Max (+210)  
 Other high temp material available to 430° F Max

### What is VCI?

**VOLATILE CORROSION INHIBITORS (VCI's)** are a class of corrosion inhibiting compounds, some or all of whose ingredients have sufficient energy (vapor pressure) to release molecules from the resin compound into the air and block the corrosive effects of electrolytes. VCI molecules condense in a microscopic layer on all surfaces they can reach. For VCI to work properly, caps must be secured onto the head of the bolt or nut fitting flush with the surface of the flange or substrate. This is to maintain the VCI's integrity under the cap. Radolid® protection caps with VCI additive are the only nut and bolt caps available in the market. Radolid® caps with VCI can be reused 2 to 3 times before requiring grease to be added to the caps.

## To order please specify the following:

1. Bolt Diameter (flat to flat)
2. Model (Type 1, Type 2, For checknut, Telescopic)
3. Special length caps, if required
4. Colors other than black

## Other Quality Products Available:

- Kleerband® Flange Band Protectors
- Flange Isolating Gasket Kits
- Innerlynx®
- Casing Spacers
- End Seals
- U-Bolt Cote®
- Safety Spray Shields
- Foreman Night Caps
- GAL-VO-PLAST® Wall Sleeves
- ISOJOINT® Monolithic Isolating Joint



## Advance Products & Systems, Inc.

P.O. Box 60399 • Lafayette, Louisiana 70596-0399  
800-315-6009 • 337-233-6116 • fax: 337-232-3860  
sales@apsonline.com • www.apsonline.com

Distributed By: