

# High Performance Mold Maintenance Products

New  
The Defender  
Rust Preventative



- Grease
- Cleaners
- Rust Preventatives
- NanoMoldRelease Coatings
- Spray Grease
- Spray Mold Release

## Product Line Overview

Made in the U.S.A.

# High Performance Mold Maintenance Products

PCS Company's high performance mold maintenance products are designed to work as an integrated family of products with the sole purpose of making the plastic injection molding process more efficient. This simplified grouping is designed to eliminate waste and inefficiencies caused by the outdated, mold maintenance products that have been used for years. No other company has the products to make the molding process run as productively as PCS Company.

PCS Company's family of Mold Maintenance products include mold release coatings, grease, cleaners/degreasers and rust preventatives. Each product is designed to improve mold and production efficiency.

## How do our products make your molding process more efficient?

If a mold is cleaned properly down to the bare metal, it can often run efficiently without any other treatment. Our **Power Clean** does just that! If a clean mold is not enough and you are having to use mold release agents, our **NanoMoldRelease** coatings can eliminate the need for spray-on mold releases and improve start up scrap issues and fill times while reducing mold down time.

If scrap at startup is a problem, our **Mold Guard** "dry" rust preventative goes on dry and does not bleed grease into the molding area. It can also be molded over without having to clean the mold first. Another cause of startup scrap from bleeding is grease. Our **NanoCeramicMold Grease** can withstand much higher temperatures than standard greases, therefore, eliminating bleeding. Lastly, our **Zap-Ox** residue remover can clean gas stains, rust and other oxides within minutes, where it may take hours with standard resin removers.

Each of these products can be used separately, but when used together this integrated family of products will make your mold run more efficiently than you ever imagined.

## Integrated Family of Products

Grease	NanoMoldCoating™		Spray Mold Release	Cleaners	Rust Preventative
Nanoceramic Mold Grease	Heat Cured	Quick Cure	Dri-Kote	Power Clean	Mold Guard
Cera Lube Spray Grease	HC	QC15	Tuff-Kote	Mold Brite	Mold Guard Green
	HCF	QC15S		Zap-Ox	The Defender
		QC15R		NanoMold Cleaner	

# Table of Contents

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## Mold Grease

NanoCeramicMoldGrease.....	2
Cera Lube Spray Grease.....	3

## Coatings

NanoMoldCoating HC & HCF.....	4
NanoMoldCoating QC.....	5

## Spray Mold Releases

Dri-Kote & Tuff Kote.....	7
---------------------------	---

## Rust Preventatives

Mold Guard & Mold Guard Green.....	8
------------------------------------	---



The Defender.....	9
-------------------	---

## Cleaners

Power Clean & Mold Brite.....	10
-------------------------------	----

## Specialty Cleaners

Zap-Ox & NanoMoldCleaner.....	11
-------------------------------	----

# NanoCeramicMoldGrease

Extreme Performance Lubricating Grease



- Remains on the surface longer, extending production life up to 10x
- Reduces maintenance cost and down time
- Does not soften and run out of the application during use
- After 100,000 production strokes it has shown no evidence of breakdown
- Operating temperatures of 0°F to 450°F continuously, up to 650°F intermittently
- Resists water, steam, acid and most chemicals
- High load bearing properties
- High pressure and anti-wear protection
- NSF Food Grade Approved and environmentally friendly
- Super low coefficient of friction
- High dropping point
- Low dielectric constant making it an excellent insulator
- Does not contain PTFE or Silicone

Part Number	Size	Container	Package Qty
NCG1000	16 oz.	Tube	1
NCG1001	16 oz.	Tube	Case (12)
NCG0016	16 oz.	Tub	1
NCG0007	1 Gallon	Tub	1
NCG0035	5 Gallon	Pail	1

# Cera Lube

High Performance Spray Grease



- White lithium grease sprays on evenly and sets dry
- Protects against rust and corrosion
- Microceramic formula penetrates into tight passages
- Increases production by reducing friction and sticking issues
- Does not breakdown or run off in high wear applications
- Excellent adhesive to all metal surfaces
- Low thermal expansion
- Contains PTFE additives\*
- Resists moisture and outside contaminants
- Temperature range: 0° F to 450° F continuously, 0° F to 650° F intermittently
- Compatible with NanoCeramicMoldGrease

\*PTFE is not FDA Approved

Part Number	Size	Container	Package Qty
CL-500-1	16 oz.	Can	1
CL-500	16 oz.	Can	Case (12)

# NanoMoldCoating™ HC & HCF

Eliminating Sticking Problems



## Each HC kit includes:

- Bottle of NanoMoldCoating
- Bottle of NanoMoldCoatingRemover
- Microfiber application cloths, Spray tip, Swabs
- Application instructions
- NanoMoldCleaner

## Each HCF\* kit includes:

- Bottle of NanoMoldCoating - Part A
- Bottle of NanoMoldCoating - Part B
- Bottle of NanoMoldCoatingRemover
- Application cloths, Spray Tip, Swabs, Eyedropper
- Application instructions
- NanoMoldCleaner

*To prevent removal of NanoMoldCoating™, use NanoMoldCleaner only (See page 10)*

- Up to 300,000 cycles per coating
- Reduces cycle times, increases productivity and eliminates sticking
- Improves part finish by eliminating dragging and stretching
- Reduces molding pressure and temperature
- Withstands temperatures up to 1000°F
- Does not migrate to part surface
- In-house / Self applied application
- Can be used with all resins
- Improves part quality
- Nontoxic

Part Number	Size	Coverage	Container	Package Qty
NANO5HC	5 ml	3-5 sq. ft.	Bottle	1
NANO15HC	15 ml	9-15 sq. ft.	Bottle	1
NANO25HC	25 ml	15-25 sq. ft.	Bottle	1
NANO50HC	50 ml	30-50 sq. ft.	Bottle	1
NANO10HCF*	10 ml	6-10 sq. ft.	Bottle	1
NANO15HCF*	15 ml	9-15 sq. ft.	Bottle	1
NANO25HCF*	25 ml	15-25 sq. ft.	Bottle	1
NANO50HCF*	50 ml	30-50 sq. ft.	Bottle	1

\*FDA Approved

# NanoMoldCoating™ QC

Eliminating Sticking Problems



Quick Cure Product Offering	
QC15	Standard Resin Application
QC15S	Silicone Application
QC15R	Rubber Application

### Each kit includes:

- Bottle of NanoMoldCoating
- Bottle of NanoMoldCoatingRemover
- Microfiber application cloth
- Swabs
- Application instructions
- NanoMoldCleaner

To prevent removal of NanoMoldCoating™, use NanoMoldCleaner only (See page 10)

- 10-15 minute cure time
- Multiple coats can be applied
- Can be applied over other coatings (PTFE, nickel, chrome, boron, etc.)
- Can be sprayed directly onto the mold
- Can be applied while mold is in press at a minimum of 120°F
- Can quickly be reapplied
- Water based
- Easy to transport

Part Number	Size	Coverage	Operating Temperature	Container	Package Quantity
NANO2QC	2 oz.	3-5 sq. ft.	500°F	Spray Bottle	1
NANO8QC	8 oz.	12-20 sq. ft.	500°F	Spray Bottle	1
NANO2QCS	2 oz.	3-5 sq. ft.	450°F	Spray Bottle	1
NANO8QCS	8 oz.	12-20 sq. ft.	450°F	Spray Bottle	1
NANO2QCR	2 oz.	3-5 sq. ft.	500°F	Spray Bottle	1
NANO8QCR	8 oz.	12-20 sq. ft.	500°F	Spray Bottle	1

# Which NanoMoldCoating™ is right for your application?



## HC/HCF

- Cure Time = 3-4 hours
- Best applied when mold is not in the press at room temperature
- Withstands temperatures up to 1000°F
- Limited ability to bond to plated or pretreated surfaces
- HCF=FDA approved

## QC15, QC15S & QC15R

- Cure Time = 10-15 minutes
- Can be applied to molds in or out of the press
- QC15 & QC15R withstands temperatures up to 500°F
- QC15S withstands temperatures up to 450°F
- Bonds well to plated or pre treated surfaces (PTFE, nickel, chrome, boron, etc.)
- No FDA formulation; cytotoxicity test show 0% reaction according to United States Pharmacopeia standards



# Dri-Kote & Tuff Kote

Spray Mold Release



## Medium Duty Mold Release

- Fully Paintable
- Quick Drying Chemistry
- Works on all temperatures
- No build up on the mold
- Non-silicone formula
- Safe on all plastics

Part Number	Size	Container	Package Qty
DK-300	10.75 oz.	Can	Case (12)
DK-300-1	10.75 oz.	Can	1



## Heavy Duty Mold Release

- Heavy duty formula lasts longer on the mold
- Fully Paintable
- Quick Drying Chemistry
- Works on all temperatures
- No build up on the mold
- Non-silicone formula
- Safe on all plastics

Part Number	Size	Container	Package Qty
TK-150	10.75 oz.	Can	Case (12)
TK-150-1	10.75 oz.	Can	1

# Mold Guard & Mold Guard Green

Rust Preventatives



“True Dry” Rust Preventative

- Goes on dry and stays dry
- Does not break down grease
- Eliminates bleeding at start-up
- Can be molded through at startup
- Prevents harmful corrosion from penetrating the mold
- Moisture displacing chemistry
- Excellent film strength
- Adjustable volume nozzle for desired amount of spray

Part Number	Size	Container	Package Qty
MG-50	10.25 oz.	Can	Case (12)
MG-50-1	10.25 oz.	Can	1



“True Dry” Rust Preventative

- Same great dry formula as Mold Guard with a green tint
- The green tint allows for easy visibility when applied to the mold
- Will **NOT** run when applied
- Molds off in just a few shots
- Goes on dry and stays dry
- Eliminates bleeding at start-up
- Prevents harmful corrosion from penetrating the mold
- Adjustable volume nozzle for desired amount of spray

Part Number	Size	Container	Package Qty
MG-50-G	10.25 oz.	Can	Case (12)
MG-50-G-1	10.25 oz.	Can	1

# The Defender

Rust Preventative



## Semi Dry Rust Preventative

- Semi Dry for longer lasting protection
- Does not migrate or cause bleed-through
- Moisture displacing chemistry
- Protects when molding PVC or other corrosive materials
- Molds off in just a few shots
- Up to 3 year protection
- Easy Removal
- Green tint allows for easy visibility when applied to the mold
- Adjustable volume nozzle for desired amount of spray

Part Number	Size	Container	Package Qty
D-400	10.25 oz.	Can	Case (12)
D-400-1	10.25 oz.	Can	1

# Power Clean & Mold Brite

Mold efficiency products



Extreme performance cleaner & degreaser

- Contains aggressive chlorinated cleaning agent
- Effectively removes dirt and contaminants from surface and pores
- Quick evaporation
- Cleans without wiping
- Residue free
- Low odor
- Safe to use on all metal surfaces

*Note: Power Clean will remove NanoMoldCoating™*

*\*This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm. Not for sale in the State of California.*

Part Number	Size	Container	Package Qty
PC-100*	16 oz.	Can	Case (12)
PC-100-1*	16 oz.	Can	1



High performance cleaner & degreaser

- Powerful cleaning formula for difficult to remove contaminants
- Cleans surfaces down to the virgin metal
- Flushes contaminants from the pores without wiping
- Fast evaporating chemistry eliminates issues with bleeding into ejector pins and hard to reach areas
- Non-chlorinated formula

*Note: Mold Brite will remove NanoMoldCoating™*

Part Number	Size	Container	Package Qty
MB-200	12.5 oz.	Can	Case (12)
MB-200-1	12.5 oz.	Can	1

# Zap-Ox & NanoMoldCleaner

Speciality Cleaners



The Ultimate Stain Remover

- Removes rust, oxidation, build-up & weld discoloration
- Unmatched stain removing ability
- Brings metal back to its original state
- Does not etch the surface of the metal
- Non-caustic and operator friendly
- Safe to use on all metal surfaces

*Note: Zap-Ox will remove NanoMoldCoating™*

Part Number	Size	Container	Package Qty
ZO-16	16 oz.	Bottle	Case (12)
ZO-16-1	16 oz.	Bottle	1



Cleans without removing NanoMoldCoating™

- Formulated to clean molds coated with NanoMoldCoating™
- Penetrates grease and oils
- High strength concentration
- Non-toxic
- Non-flammable
- Biodegradable

Part Number	Size	Container	Package Qty
NCC1214	14 oz.	Can	Case (12)
NCC1215	14 oz.	Can	1

# Nano Products Shelf Life



<b>NanoMoldCoating™</b>		
<b>PCS Part Number</b>	<b>Shelf Life Unopened</b>	<b>Shelf Life Opened</b>
<b>HC Formulation</b>		
NANO5HC	6-9 Months	30-60 Days
NANO15HC	6-9 Months	90-120 Days
NANO25HC	9-12 Months	90-120 Days
NANO50HC	9-12 Months	90-120 Days
<b>HCF Formulation</b>		
NANO10HCF	3-4 Months	to 30 Days
NANO15HCF	3-4 Months	60-90 Days
NANO25HCF	6 Months +	60-90 Days
NANO50HCF	6 Months +	60-90 Days
<b>QC Formulation</b>		
NANO2QC	18 Months	18 Months
NANO8QC	18 Months	18 Months

<b>Cleaners &amp; Rust Preventatives</b>	
<b>PCS Part Number</b>	<b>Shelf Life</b>
NanoMoldCleaner, NCC1214	30 Months
Power Clean, PC-100	30 Months
Mold Guard, MG-50	30 Months
Zap-Ox, ZO-16	30 Months
Mold Brite, MB-200	30 Months

<b>Spray Mold Release</b>	
<b>PCS Part Number</b>	<b>Shelf Life</b>
Dri-Kote, DK-300	30 Months
Tuff Kote, TK-150	30 Months





***Turn To The Industry Experts***