



# Eco-Friendly PPE





***Sustainability***



***Eco-Friendly Material***



***Eco-Friendly Packaging***



***Eco-Friendly Manufacturing***



MCR Safety is committed to protecting people and to protecting the planet! Our product focused on the environment proves it.

We classify PPE as being Eco-Friendly if any one of these 3 areas are met:



**Eco-Friendly  
Material**

The use of eco-friendly material is used in the product itself: Biodegradable raw materials and/or recycled raw materials



**Eco-Friendly  
Packaging**

The use of eco-friendly packaging such as recycled polybags, corrugated, and paper



**Eco-Friendly  
Manufacturing**

The use of eco-friendly manufacturing process to create the product that lowers or reduce energy consumption, CO<sub>2</sub> emissions, and water recycling.



# *Sustainable* *PPE*



## ***What is Sustainability?***

It's the word that best describes minimizing the number of resources used so they're not depleted. Sustainability means striking a balance with nature to meet the current needs of humanity without compromising the ability of future generations to meet their own needs.

At MCR Safety, true sustainability is best achieved by combining all 3 Eco-Friendly facets into a single product. The best example of this is our Ninja® BNF Evolution!



**Eco-Friendly  
Material**



**Eco-Friendly  
Packaging**



**Eco-Friendly  
Manufacturing**





# NINJA<sup>®</sup>

## BNF EVOLUTION

INGENIA<sup>®</sup>  
ECO-FRIENDLY YARN



37% of the shell composition utilizes renewable ingredients



63% reduction in CO<sub>2</sub> emissions over equal amount of nylon



30% reduction in energy production over equal amount of nylon



All Ninja<sup>®</sup> work gloves are packaged with recycled paper to reduce the carbon footprint and waste impact on the world.



SUSTAINABLE GLOVES

**N96051**

Sizes: XS-XXL  
BNF Nitrile Foam

	Master Card	Hang Tag	Carton	Polybags
<b>Previous Material</b>	350 GSM Virgin Paper	350 GSM Virgin Paper	5 PLY 100% Virgin Paper	50-60 Micron LDPE
<b>Sustainable Material</b>	300 GSM Brown Recycled Card	300 GSM Brown Recycled Hang Tag	5PLY 80% Virgin Paper 20% Recycled Paper	30 Micron LDPE





# Sustainable Gloves



### **Recycled Polyester Shell (Latex Free)**

Made from recycled bottles

PET shell provides inherent moisture management to reduce sweat build-up



### **Biodegradable Nitrile Foam Coating**

ASTM D5511 Tested -

Degrades 14% within the first 45 days in a landfill



### **Biodegradable Packaging**

Each pair packaging and master case



### **Clean Energy**

Hydropower utilized to produce yarn reduces carbon footprint

**96092**  
Ultratech  
Sizes: XS-XXL





**Recycled Polyester Shell (Latex Free)**

Made from recycled bottles  
PET shell provides inherent moisture management to reduce sweat build-up



**Micro Nitrile Foam Coating**

Extreme sense of touch



**Biodegradable Packaging**

Each pair packaging and master case



**Clean Energy**

Hydropower utilized to produce yarn reduces carbon footprint

**96091**  
Ultratech  
Sizes: XS-XXL





# ***Eco-Friendly Material***





# Biodegradable

## ***What does Biodegradable mean?***

When dumped into landfills with no air source, Biodegradable items break down into natural elements when exposed to oxygen and beneficial bacteria. While most waste material will eventually degrade over time, materials considered biodegradable break down much faster and dissolve into environmentally safe organic material.

## ***How are gloves tested for Biodegradability?***

ASTM D5511 vs. ASTM D5526

ASTM D5511 determines biodegradation of plastic materials in a lab setting based on a household waste environment.

ASTM D5526 determines biodegradation by replicating typical conditions found in municipal landfills.





**BIODEGRADABLE NITRILE**

- 6041** Sizes S-XXL
- 4 mil Biodegradable Nitrile - Powder-free
  - 9.5" length
  - Rolled cuff
  - Textured grip

**ASTM D5526 tested**  
**-Biodegrades 64% in 395 days**

**Component materials comply with all relevant federal regulations for food contact.**



**6041**  
 Sizes S-XXL  
 Biodegradable Nitrile

**NITRISHIELD™**   
 with **MAXBio™** Technology



- 5380** Sizes S-XXL
- \*8 mil Biodegradable Nitrile - Unlined
  - \*12" length
  - \*Straight cuff
  - \*Raised diamond grip

**ASTM D5511 tested**  
**-Biodegrades 32% in 180 days**



**5380**  
 Sizes S-XXL  
 Biodegradable Nitrile



## Recycled Cotton

Using natural materials like cotton lessens our reliance on chemical plastics. Products derived from materials found in nature allows them to degrade at 76% after 243 days and continue the degradation process over time. Compare that to the decades or centuries it takes some synthetics to decompose, if they ever do!

At MCR Safety, we manufacture cotton gloves and sleeves utilizing recycled yarns and fabrics from various industries.





**9500LM 7-gauge Regular Wt.**  
Sizes: XSM, SM, MM, LM, XLM



**9506LM 7-gauge Heavy Wt.**  
Sizes: SM, MM, LM



**9510LM 7-gauge Regular Wt.**  
Sizes: SM, MM, LM



**9613LM 13-gauge Regular Wt.**  
Sizes: SM, LM



**9618LM 10-gauge Econ. Wt.**  
Sizes: SM, LM



**9638LM 7-gauge Econ. Wt.**  
Sizes: SM, MM, LM, XLM





# Recycled Vests

***Did you know in 2020, 15 billion gallons of bottled water were sold in the U.S.?***

With the increases in consumption, companies across the globe are finding ways to recycle and re-purpose the material for service into other products.

## ***How are recycled materials used in Safety?***

Recycling involves using waste materials to produce new objects. A perfect example of this is our recycled safety vests made from 10 plastic bottles.

Each vest is made by utilizing 9-10 plastic bottles which are recycled into a thread to construct each vest.





ANSI TYPE	ANSI CLASS	MESH	ZIPPER	POCKET INNER	POCKET OUTER
R	2			2	4

- RSURVML** Sizes: S-5X
- ANSI/ISEA 107, Type R Class 2 compliant
  - Breathable fluorescent lime mesh material
  - Surveyor style
  - 3" orange / 2" silver tape
  - 4 outer pockets and 2 inner pockets
  - Zipper front
  - Mic-tab holder

- RSURVMO** Sizes: S-5X
- Breathable fluorescent orange
  - 3" lime / 2" silver tape



ANSI TYPE	ANSI CLASS	MESH	ZIPPER	POCKET INNER	POCKET OUTER
R	2			1	2

- RVCL2MOZ** Sizes: S-5X
- ANSI/ISEA 107, Type R, Class 2 compliant
  - Breathable fluorescent orange mesh material
  - Zipper front closure
  - 2" silver reflective stripes
  - 2 outer and 1 inner pocket

- RVCL2MLZ** Sizes: S-X5
- Breathable fluorescent lime



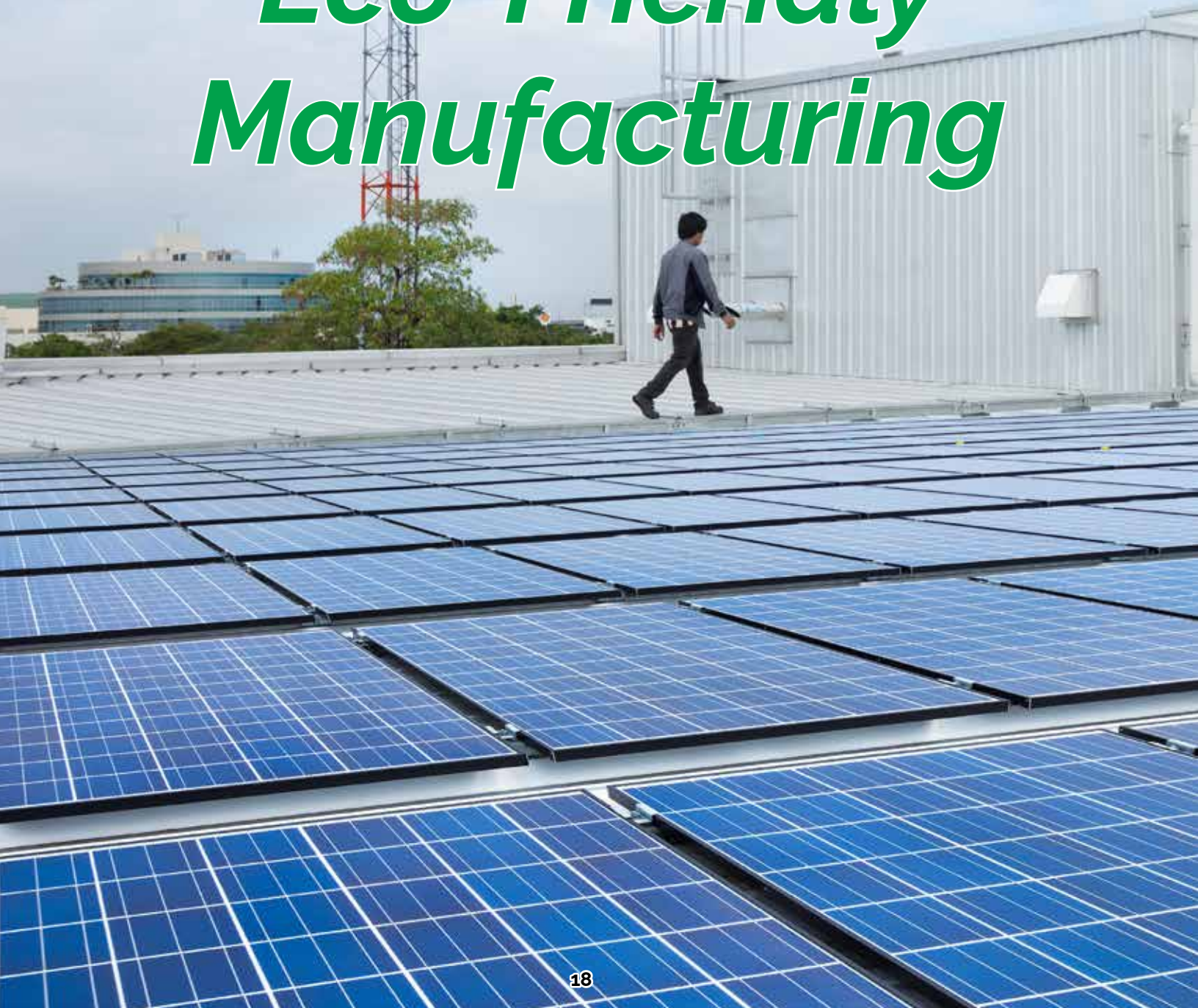
ANSI TYPE	ANSI CLASS	MESH	BREAK AWAY	POCKET OUTER	D-RING ACCESS
R	2			1	

- RXCL2ML** Sizes: S-5X
- ANSI/ISEA 107, Type R Class 2 compliant
  - CSA Z96 Class 2 Level 2 compliant
  - Breathable fluorescent lime mesh material
  - Hook and Loop front closure
  - 5 Point break away pattern
  - D-Ring access slot on back
  - 2" silver reflective stripes
  - X reflective pattern on vest back
  - 1 outer chest pocket

- RXCL2MO** Sizes: S-5X
- Breathable fluorescent orange



# *Eco-Friendly Manufacturing*







# *Eco-Friendly Manufacturing*

MCR Safety is the first company to offer safety glasses that are UV cured, improving anti-fog performance by 3X. The anti-fog technology, shortened to UV-AF<sup>®</sup>, describes the very essence of the coating itself, making it easier for users to remember and to more easily identify UV cured safety glasses.

In addition, UV-AF<sup>®</sup> is an environmentally superior product. This is because UV-AF<sup>®</sup> anti-fog glasses require no lengthy thermal curing, instead using ambient temperatures to instantly UV cure the safety glasses.

## *Eco-Friendly Manufacturing*



### ***Less Electricity to Produce***

87% less energy required as compared to standard AF applications.



### ***Fewer Chemicals Used***

Less pollution is being released into the eco-system.



### ***Fewer CO<sub>2</sub> Emissions***

A savings of roughly 13,000 kg of CO<sub>2</sub> per month.

**UV-AF<sup>®</sup>**  
**3X**  
**Greater**  
**Anti-Fog Protection**



**Klondike KD7**



**Memphis MP1**



**Swagger SR3**



**Checklite CL1**



**+56 skus available**



# Eco-Friendly Manufacturing

## Eco-Friendly Manufacturing



### **Clean Energy**

NXG manufactured gloves rely less on electricity generated by coal, natural gas, and petroleum and more on alternative energy sources such as solar power.



### **Exhaust Gas Filtration**

All exhaust gases are effectively collected and treated (water spray, catalytic oxidation) and converted into heat energy for recycling. Real-time monitoring (24h)



### **Zero Contamination**

Premier water filtration and recycling system





**96699**  
PU



**96695**  
PU



**96731**  
Foam Latex



**9680**  
Crinkle Latex



**96715**  
Foam Nitrile



**9673**  
Foam Nitrile



**MG9694**  
Bi-Polymer



**96781**  
Foam Nitrile



**+32 styles available**



# *Eco-Friendly Packaging*





N96790XL 12 DZ  
10421431651861  
P O BOX 800014388  
CARLETON  
M9B 4E99  
MADE IN KANIKATAN (881)

**NINJA**®

Ninja® is a registered trademark of MIDAS Innovations Limited



# Eco-Friendly Packaging

We produce our Ninja® range of premium safety gloves to help protect the hands of workers around the world. But we're also stepping up to do our part in helping to protect the world itself. By replacing virgin paper with recycled paper wherever we can, and reducing the thicknesses of our shipping and packaging materials, we're helping to reduce our carbon footprint and waste impact on the world.

	Master Card	Hang Tag	Carton	Polybags
<b>Previous Material</b>	350 GSM Virgin Paper	350 GSM Virgin Paper	5 PLY 100% Virgin Paper	50-60 Micron LDPE
<b>Sustainable Material</b>	300 GSM Brown Recycled Card	300 GSM Brown Recycled Hang Tag	5PLY 80% Virgin Paper 20% Recycled Paper	30 Micron LDPE



	Per 100,000 dozen pairs %	% Saved
Reduction in paper consumption	14,310 kg 340 trees saved	83%
CO <sub>2</sub> absorbed by trees left standing	2,290 kg	83%
CO <sub>2</sub> emissions reduction during packaging production	3,000 kg	50%
Plastic reduction (from 60 to 30 microns)	500 kg	50%

**Like your two hands, this planet is the only one we have.**



**N96970  
BNF**



**N96797  
BNF**



**N96790  
BNF**



**N9696  
PU**



**N9680  
Latex**



**N9699  
HPT**



**N9690  
HPT**



**N9690W  
HPT**



**N9690FCO  
HPT**



**+35 styles available**



**WE PROTECT PEOPLE**

MCR Customer Service | 800.955.6887  
[www.mcrcsafety.com](http://www.mcrcsafety.com)

