## **EWOT**

## **About Towa Corporation**

Since its establishment in 1947, Towa Corporation has been an innovative creator of both household and industrial gloves. Towa, known as a natural rubber dipping expert, has been introducing a variety of high standard gloves to many industries, including automotive, construction, fishing, farming, warehousing, etc. The quality of Towa gloves was soon recognized widely in Japan, and its reputation has spread to other parts of the world. Since then, Towa gloves are sold in over thirty countries across five continents. It is the challenge that Towa maintains its commitment in creating high quality gloves for a variety of industries.

#### **Company Policy**

#### **Quality Control**

Towa Corporation believes that a high quality control system creates a good relationship with its customers. Committing itself to high quality control, Towa Corporation became the first Japanese glove manufacturer obtaining ISO 9002:1994 in January 1999 and obtained ISO 9001:2000 in February 2002 for its quality control. Towa's overseas factory in Shanghai also maintains ISO 9001 for its quality control assurance.

#### Ergonomics

Towa believes the most important stage of manufacturing gloves is creating formers, and it is set as the first priority when developing new products. Towa has personnel specializing in the shapes of human hands for making better formers. Our extensive experience in research and development make it possible to create ergonomic formers for a variety of gloves. Towa believes that offering ergonomically designed gloves that truly fit the human hands is what differentiates us from other glove manufacturers.

#### Environment

Recycling- Towa Corporation believes in its responsibility to global concerns in two areas; reducing the consumption of natural resources and preserving the environment. As the first effort in that commitment, Towa Corporation has started a recycling business in 2000. The business transforms used gloves into a variety of products, including pallets, packing crate, gardening products, and so on.



Founded in Kurume, Japan



Establishment of Shanghai factory in China



Establishment of Pabna factory in Bangladesh

## TOW3 GLOVE CATALOGUE

#### DESIGN AND PERFORMANCE THAT WORK







www.towagloves.com

# MICROFINISH®

## ULTIMATE COATING TECHNOLOGY PROMISES UNPARALLELED GRIP PERFORMANCE FOR THE DRY, WET, AND OILY MATERIAL SURFACES.

## **About MICROFINISH®**

Researching and developing the products that offer safety, comfort, and most importantly grip for a long time, Towa Corporation has finally found a solution. This original coating technology with a unique glove surfacing process is designed to create a maximum bond, with minimum effort, under a wide variety of wet and oily conditions. Most gloves used for slippery applications have a stiff compound and rough surface coating, which is utilized in only a very small percentage of the grip's surface area.

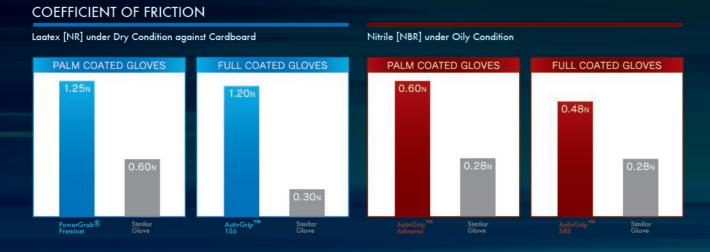
The MicroFinish<sup>®</sup> technology actually takes an opposite approach. Its remarkable grip performance is created by using a soft and flexible compound filled with thousands of microscopic pockets. As these pockets come into contact with a surface, they create a vacuum that disperses fluids and allows the entire grip surface to make clean contact with the object.

Coated with latex and nitrile, MicroFinish<sup>®</sup> is available in ActivGrip<sup>™</sup> series as well as PowerGrab<sup>®</sup> series. Towa Corporation has committed to introducing new gloves, incorporated with MicroFinish<sup>®</sup> coating technology. MicroFinish<sup>®</sup> has become an essential standard for virtually all gloves that require a high level of grip performance.

## Feel The Difference with MICROFINISH®

Below are some comparison charts of MicroFinish<sup>®</sup> gloves, tested under both dry and oily conditions.

The results show how MicroFinish<sup>®</sup> models are different from other gloves in the market.



**Micro**Finish<sup>™</sup>

INDEX	
5 - 13	Αςτιν
14	AIREX
15 - 19	Powerl
20 - 21	OR Se
22 - 23	Cut Resis Gloves
24 - 25	WITH GA
26	Mith. — Premium S
27	EQU

























ActivGrip<sup>™</sup> ATA<sup>®</sup> 534

### **GRIP PERFORMANCE WITH CUT RESISTANCE AND DEXTERITY**

#### DESCRIPTION

ActivGrip<sup>™</sup> ATA<sup>®</sup> 534 combines ATA<sup>®</sup> fiber with Towa's MicroFinish<sup>®</sup> technology, delivering outstanding cut resistance and excellent grip performance. The 13-gauge, seamless ATA® liner and "open back styling" keeps hands cool while delivering excellent flexibility to minimize hand fatigue and thereby increase productivity. Towa is wellknown for the performance of its product ActivGrip<sup>™</sup> Advance, and the soft yet durable Nitrile MicroFinish<sup>®</sup> coating of ActivGrip™

Advanced Technology Armor<sup>®</sup> (ATA<sup>®</sup>) Advanced Technology Armor<sup>®</sup> (ATA<sup>®</sup>) is a revolutionary family of fibers and yarns engineered and designed for use in the manufacturing of high performance personal protective equipment. ATA® is designed to offer a superior level of protection, comfort, and function. ATA  ${}^{\bar{\mathbb{R}}}$ has had a tremendous effect on the industrial glove market and has been one of the leading forces in facilitating a change from "traditional" hand protection design. ATA $^{\ensuremath{\mathbb{R}}}$  is constructed using state of the art manufacturing and production techniques. The ATA $^{\ensuremath{\mathbb{R}}}$  core yarn is engineered with a combination of cut resistant components which allows a product that is made with ATA® to have a cut resistant factor that can be up to 2x's better than a comparable product made with conventional cut resistant fibers.

#### FEATURES

Cut resistance ActivGrip<sup>™</sup> ATA<sup>®</sup> 534 offers the high assurance of cut resistant protection ISO level D with outstanding dexterity.

#### **Oil Resistant**

Unlike similar gloves available in the market, ActivGrip™ ATA® 534 offers more promising protection against oil penetration. Double coated surface keeps hands clean for oily handling.

**Stable grip** With MicroFinish<sup>®</sup> technology, ActivGrip<sup>™</sup> ATA<sup>®</sup> 534 promises its

#### Comfort

A 13-gauge seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue.

#### PRODUCT

Material Nitrile Liner 13-Gauge | Seamless | ATA® fiber Color Liner: Yellow, Coating: Black Size 6/XS-11/XXL Carton Quantity 72 pairs Individual Package Available



#### Pat. No

NBR MicroFinish® Technology: U.S. Pat. No. 8,387,167 / EP Pat. No. 1703/2143551 Overdip Technology: U.S. Pat. No. 8,302,215 / EP Pat. No. 2253234

ATA is a registered trademark of Worldwide Protective Products, LLC.





6/XS 7/S 8/M 9/L 10/XL 11/XXL

Color



#### ActivGrip<sup>™</sup> Advance 581 **EXCELLENT OIL GRIP PERFORMANCE** DESCRIPTION

ActivGrip<sup>™</sup> Advance is specifically designed to provide maximum "all-around" performance on slippery-grip applications in non-hazardous chemical environments. The 13-gauge seamless wooly nylon liner and "open back style" provide an excellent coolness and flexibility, minimizing hand fatigue, thus increasing productivity. A soft yet durable nitrile coating technology "MicroFinish<sup>®</sup>" adheres to virtually any dry or slippery surface.

#### FEATURES

#### **Oil Resistant**

Unlike similar gloves available in the market, ActivGrip™ Advance offers more promising protection against oil penetration. Double coated surface keeps hands clean for oily material handling.

#### Confidence

With MicroFinish® technology, the Advance promises its performance under dry, wet, and oily conditions.

#### Comfort

A 13-gauge seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue.

#### PRODUCT

Material Nitrile Liner 13-Gauge | Seamless | Nylon Color Liner: Purple, Coating: Black Size 6/XS-11/XXL Carton Quantity 144 pairs Individual Package A





#### Pat. No

NBR MicroFinish® Technology: U.S. Pat.No. 8,387,167 / EP Pat.No. 2143551 Overdip Technology: U.S. Pat.No. 8,302,215 / EP Pat.No. 2253234



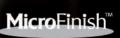


Outstanding grip performance available with MicroFinish® technology



ACTIV GRIP

CEI







**Nitrile** Coating



#### ActivGrip<sup>™</sup> Strong 524



ACTIV GRIP

9/1

CE 🗉 😂

7/S 8/M 9/L

10/XL 11/XXL

Hem

Color

#### MICROFINISH® WITH MORE DURABILITY

#### DESCRIPTION

ActivGrip™ Strong is specifically designed to provide more safety and durability by using 10-gauge liner and fully coated thumb. A soft yet durable nitrile coating technology "MicroFinish®" adheres to virtually any dry or slippery surface.

#### FEATURES

#### **Oil Resistant**

Unlike similar gloves available in the market, ActivGrip™ Strong offers more promising protection against oil penetration. Double coated surface keeps hands clean for oily material handlina.

#### **Grip Performance**

With MicroFinish® technology, a soft yet durable nitrile coating promises its performance under dry, wet, and oily conditions.

#### Safety

A 10-gauge seamless liner offers an excellent strength and durability. Extra coating of the thumb area assures the most important aspect, safety.

#### PRODUCT

Material Nitrile Liner 10-Gauge | Seamless | Polyester/Cotton Color Liner: Gray, Coating: Black Size 7/S-11/XXL Carton Quantity 72 pairs

Individual Package Available



#### Pat. No

NBR MicroFinish® Technology: U.S. Pat.No. 8,387,167 / EP Pat.No. 2143551 Overdip Technology: U.S. Pat.No. 8,302,215 / EP Pat.No. 2253234

#### ActivGrip<sup>™</sup> Omega 540

#### **OIL GRIP PERFORMANCE WITH CUT RESISTANCE**

#### DESCRIPTION

The base model of the Omega series. The 13-gauge HPPE liner gives the user a lightweight feeling, yet maintains a stable cut resistance of the high level. The liquidproof palm with MicroFinish® promises the best grip in the industry while blocking liquids from outside. These features, combined with the open back hand style, make ActivGrip™ Omega the ideal light duty glove for oily and dry environments with cut risks present.

#### FEATURES

#### Lightweight

A 13-gauge seamless liner and ergonomic design assure maximum comfort and a lightweight feeling. The open back hand allows for the optimal flowing of air, creating a cool feeling that keeps the performance going.

Safety With HPPE fiber, ActivGrip™ Omega offers the high cut resistant protection. The HPPE fibers assure that ActivGrip™ Omega is up to the tough and dangerous jobs without losing dexterity and durability.

#### Liquidproof Palm

The double coated palm surface keeps hands clean and prevents any liquid from outside. ActivGrip™ Omega combines maximum performance with hygiene for the ultimate protection of the user's hands.

#### **Grip Performance**

Towa's original patented MicroFinish  $^{\textcircled{0}}$  technology offers the best grip in the industry in dry, wet, and oily conditions.

#### PRODUCT

Material Nitrile

Liner 13-Gauge | Seamless | HPPE/Glass fiber Color Liner: Gray, Coating: Black Size 7/S-11/XXL Carton Quantity 72 pairs Individual Package Available



Pat. No



NBR MicroFinish® Technology: U.S. Pat.No. 8,387,167 / EP Pat.No. 2143551 Overdip Technology: U.S. Pat.No. 8,302,215 / EP Pat.No. 2253234

#### ActivGrip™ CJ-568 568

#### MICROFINISH® WITH ADDITIONAL FINGER COATED STYLE

#### DESCRIPTION

ActivGrip™ CJ-568 is taking Towa's already impressive line of premium industrial gloves a step further into the future. The CJ-568 is specifically designed to provide maximum "all-around" performance on slippery-grip applications in non-hazardous chemical environments. The 13-gauge seamless wooly nylon liner and "finger coated style" provide an excellent flexibility and oil resistance, minimizing hand fatigue, thus increasing productivity. A soft yet durable nitrile coating technology, "MicroFinish®" adheres to virtually any dry or slippery surface.

#### FEATURES

#### **Covered Fingers**

"Finger coated style" provides more safety to all fingers as well as more protection from soil, dirt and oil penetration

#### **Oil Resistant And Less Penetration**

Unlike similar gloves available in the market, ActivGrip™ CJ-568 offers more protection against oil penetration into not only the palm but also the fingers. Double coated surface keeps hands clean for oily material handling.

#### **Grip Performance**

With "MicroFinish®" technology, a soft yet durable nitrile coating promises its performance under dry, wet, and oily conditions.

#### Comfort

A 13-gauge seamless nylon liner and ergonomic design assure maximum comfort and minimum hand fatigue.

#### PRODUCT

Material Nitrile Liner 13-Gauge | Seamless | Nylon Color Liner: Purple, Coating: Blue & Black Size 6/XS-11/XXL Carton Quantity 144 pairs Individual Package Available



#### ActivGrip<sup>™</sup> CJ-569 569

#### **ALL-AROUND PROTECTION**

#### DESCRIPTION

ActivGrip™ CJ-569 is taking Towa's already impressive line of premium industrial gloves a step further into the future. The CJ-569 is specifically designed to provide maximum "all-around" performance on slippery-grip applications in non-hazardous chemical environments. The I3-gauge seamless wooly nylon liner and "backhand coated style" provide an excellent flexibility and oil resistance, minimizing hand fatigue, thus increasing productivity. A soft yet durable nitrile coating technology, "MicroFinish®" adheres to virtually any dry or slippery surface.

#### FEATURES

#### **Covered Backhand**

"backhand coated style" provides more safety to entire hand as well as more protection from soil, dirt and oil penetration.

#### **Oil Resistant And Less Penetration**

Unlike similar gloves available in the market, ActivGrip™ CJ-569 offers more protection against oil penetration into not only the palm but also the fingers. Double coated surface keeps hands clean for oily material handling.

#### **Grip Performance**

With "MicroFinish®" technology, a soft yet durable nitrile coating promises its performance under dry, wet, and oily conditions.

#### Comfort

A 13-gauge seamless nylon liner and ergonomic design assure maximum comfort and minimum hand fatigue.

#### PRODUCT

Material Nitrile Liner 13-Gauge | Seamless | Nylon Color Liner: Purple,Coating: Blue & Black Size 6/XS-11/XXL Carton Quantity 144 pairs Individual Package Available



8



ACTIV GRIP

A3 🕑 C E 🗉 🚭

NBR MicroFinish® Technology: U.S. Pat.No. 8,387,167 / EP Pat.No. 2143551

#### ActivGrip<sup>™</sup> Advance KEV 591



#### DESCRIPTION

ActivGrip™ Advance KEV combines Kevlar<sup>®</sup> fiber with Towa's MicroFinish<sup>®</sup> technology, delivering outstanding cut resistance and excellent grip performance. The 13-gauge seamless Kevlar© liner and "open back style" keeps hands cool while delivering excellent flexibility to minimize hand fatigue and thereby increase productivity. Towa is well-known for the performance of its product ActivGrip™ Advance, and the soft yet durable nitrile MicroFinish® coating of ActivGrip™ Advance KEV means that the gloves can be used on virtually any dry or slippery surface.

#### FEATURES

#### Cut resistance

ActivGrip™ Advance KEV together with Kevlar<sup>®</sup>, a choice for bullet resistant vest, offers the high assurance of cut resistant protection.

#### **Oil Resistant**

Unlike similar gloves available in the market, ActivGrip™ Advance KEV offers more promising protection against oil penetration. Double coated surface keeps hands clean for oily material handling.

#### Confidence

With MicroFinish  ${}^{\textcircled{\ensuremath{\mathbb{R}}}}$  technology, the Advance KEV promises its performance under dry, wet, and oily conditions.

#### Comfort

A 13-gauge seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue.

#### PRODUCT

Material Nitrile Liner 13-Gauge | Seamless | Kevlar® fiber Color Liner: Yellow,Coating: Black Size 7/S-11/XXL Carton Quantity 72 pairs Individual Package Available



CE



ACTIV GRIP

A2 🔄 C E 🗉 🔄

#### Pat. No

NBR MicroFinish® Technology: U.S. Pat.No. 8,387,167 / EP Pat.No. 2143551 Overdip Technology: U.S. Pat.No. 8,302,215 / EP Pat.No. 2253234



#### ActivGrip™ 503 503

#### MICROFINISH<sup>®</sup> WITH FULLY COATED STYLE

#### DESCRIPTION

ActivGrip™ 503 is specifically designed for the working environment where 360° hand protection from mechanical hazard is required. A combination of a 15-gauge seamless liner and a nylon jersey cuff enable the glove to fit in user's hands perfectly, increasing productivity. A soft yet durable nitrile coating technoloy "MicroFinish®" adheres to virtually any dry or slippery surface.

#### FEATURES

#### **Oil Resistant**

ActivGrip™ 503 offers more promising protection against oil exposure on both palm and back of the hand. Double coated surface keeps hands clean for oily material handling.

#### Confidence

With MicroFinish<sup>®</sup> technology, ActivGrip™ 503 promises its performance under dry, wet, and oily conditions.

#### Comfort

A 15-gauge seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue.

#### PRODUCT

#### Material Nitrile

Liner 15-Gauge | Seamless | Cotton/Polyester & Nylon Color Liner: Purple, Coating: Gray Size 7/S-10/XL

Carton Quantity 72 pairs Individual Package N/A



#### Pat. No

NBR MicroFinish® Technology: U.S. Pat.No. 8,387,167 / EP Pat.No. 2143551



ACTIV GRIP

CEN

8

#### ActivGrip™ Omega Plus 541

#### **OIL GRIP PERFORMANCE WITH CUT RESISTANCE**

#### DESCRIPTION

ActivGrip™ Omega Plus features fully coated nitrile fingers to prevent liquid from outside into the finger tips while adding protection. In addition, the 13-gauge HPPE liner ensures the high level of cut resistance while being lightweight. These features with the liquid proof palm make ActivGrip™ Omega Plus the ideal glove for dry and oily environments that require detailed work and protection from cut risks.

#### FEATURES

#### **Oil Resistance**

An additional finger coating prevents penetration of liquids. By adding this extra coating, ActivGrip™ Omega Plus is ideal for jobs that require dexterity without sacrificing protection from liquids.

Safety With HPPE fiber, ActivGrip™ Omega Plus offers the high cut resistant protection. The HPPE fibers assure that ActivGrip™ Omega Plus is up to the tough and dangerous jobs without losing dexterity and durability.

#### Liquidproof Palm

The double coated palm surface keeps hands clean and prevents any liquid from coming ine double coarea paim surrace keeps hands clean and prevents any liquid from coming in. ActivGrip™ Omega Plus combines maximum performance with hygiene for the ultimate protection of the user's hands.

#### Grip Performance

Towa's original patented  $\mathsf{MicroFinish}^{\textcircled{\sc 0}}$  technology offers the best grip in the industry in dry, wet, and oily conditions.

#### PRODUCT

Material Nitrile Liner 13-Gauge | Seamless | HPPE/Glass fiber Color Liner: Gray,Coating: Blue & Black Size 7/S-11/XXL Carton Quantity 72 pairs

Individual Package Available



#### ActivGrip<sup>™</sup> Omega Max 542

#### **OIL GRIP PERFORMANCE WITH CUT RESISTANCE**

#### DESCRIPTION

The highest protection model of the series. Using the HPPE fiber technology, ActivGrip™ Omega Max achieves the high performance level in cut resistance. In addition, ActivGrip™ Omega Max is designed for maximum liquid proof protection, 360°. Combined with the liquid proof palm and MicroFinish® grip technology, ActivGrip™ Omega Max is ideal for the most extreme tasks and where true reliability of the performance is needed.

#### FEATURES

#### Maximum Performance

A lightweight 13-gauge seamless HPPE liner and ergonomic design assures maximum comfort without decreasing the dexterity. The engineered design guarantees the maximum performance without fatigue.

#### Maximum Safety

With using HPPE fiber, ActivGrip™ Omega Max offers the high cut resistant protection. Fingers are double coated to bring ActivGrip™Omega Max to the highest level of safety without losing performance, durability and dexterity.

#### Liquidproof Palm & Back

The double coated palm surface and coated back keep hands clean and prevent any liquids from outside. ActivGrip™ Omega Max combines maximum performance with hygiene fo the ultimate protection of the user's hands.

#### Grip Performance

Towa's original patented MicroFinish® technology offers the best grip in the industry in dry, wet, and oily conditions.

#### PRODUCT

#### Material Nitrile Liner 13-Gauge | Seamless | HPPE/Glass fiber Color Liner: Gray,Coating: Blue & Black

#### Pat. No

NBR MicroFinish® Technology: U.S. Pat.No. 8,387,167 / EP Pat.No. 2143551

#### ActivGrip<sup>™</sup> Lite 397



#### SUPER GRIP PERFORMANCE YOU HAVE NEVER IMAGINED

#### DESCRIPTION

ActivGrip™ Lite is specifically designed to provide maximum "all-around" performance on slippery-grip applications in non-hazardous chemical environments. The 13-gauge seamless wooly polyester liner and "open back style" provide an excellent coolness and flexibility, minimizing hand fatigue and increasing productivity. A soft yet durable latex coating technology "MicroFinish®" adheres to virtually any dry or slippery surface.

#### FEATURES

#### **Ultimate Comfort**

A 13-gauge seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue.

**Confidence** MicroFinish® technology promises its grip performance with comfort, flexibility, and dexterity without sacrificing durability.

Workability Supreme grip and limited water penetration enable wearers to work effectively.

#### PRODUCT

Material Latex Liner 13-Gauge | Seamless | Polyester Color Liner: Lemon Yellow, Coating: Blue Size 6/XS-11/XXL Carton Quantity 144 pairs Individual Package Available



#### 324/325 ActivGrip<sup>™</sup> XA-324/325

-KEN 12118 N

#### MICROFINISH<sup>®</sup> WITH ADDITIONAL FINGER COATED STYLE

#### DESCRIPTION

ActivGrip™ XA-324/325 are taking Towa's already impressive line of premium industrial gloves a step further into the future . The XA-324/325 are specifically designed to provide maximum "all-around" performance on slippery grip applications in non-hazardous chemical environments. The 13-gauge seamless wooly nylon liner and "finger coated style" provide an excellent flexibility, minimizing hand fatigue, thus increasing productivity. A soft yet durable latex coating technology "MicroFinish<sup>®</sup>" adheres to virtually any dry or slippery surface.

#### FEATURES

Covered Fingers "Finger Coated Style" provides more safety to all fingers as well as more protection from soil, dirt, and water penetration.

#### Water Resistant And Less Penetration

Unlike similiar glove available in the market, ActivGrip™ XA-324/325 offer more protection against water penetration into not only the palm but also the fingers. The double coated surface keeps hands clean from water penetration.

**Grip Performance** 

With MicroFinish® technology, a soft yet durable latex coating promises its performance under dry and wet conditions.

Comfort

A 13-gauge seamless nylon liner and ergonomic design assure maximum comfort and minimum hand fatigue.

#### PRODUCT

Material Latex

CE Liner 13-Gauge | Seamless | Nylon Color Liner:Black(324) Orange(325), Coating: White & Blue

Size 6/XS-11/XXL Carton Quantity 144 pairs Individual Package Available





ACTIV GRIP

E (E II

9/1



E (6 II

 $\odot$ 

9/L

Hem

Color

6/XS 7/S



ACTIV CRIP

8/M

10/XL 11/XXL



#### **EXCELLENT OIL GRIP PERFORMANCE WITH 15-GAUGE LINER**

#### DESCRIPTION

ActivGrip™ 585/586 are specifically designed for the working environment where 360° hand protection from mechanical hazards is required. A 15-gauge seamless liner offers excellent flexibility and dexterity, thus increasing productivity. A soft yet durable nitrile coating technology "MicroFinish<sup>®</sup>" adheres to virtually any dry or slippery surface.

#### FEATURES

**Oil Resistant** Unlike similar gloves available in the market, ActivGrip™ 585/586 offer more promising protection against oil penetration. Double coated surface keeps hands clean for oily material

Grip Performance With MicroFinish® technology, a soft yet durable nitrile coating promises its performance under dry, wet, and oily conditions.

#### Comfort

A 15-gauge seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue.

#### PRODUCT

#### Material Nitrile Liner 15-Gauge | Seamless | Polyester/Cotton Color Gray Size 7/S-10/XL Length AG585: 10 inch(26cm) AG586: 12 inch(30cm) **Carton Quantity** 72 pairs Individual Package N/A

#### Pat. No

NBR MicroFinish® Technology: U.S. Pat.No. 8,387,167 / EP Pat.No. 2143551

#### 565/566 ActivGrip<sup>™</sup> 565/566

#### **EXCELLENT OIL GRIP PERFORMANCE WITH 13-GAUGE LINER**

#### DESCRIPTION

ActivGrip™ 565/566 are specifically designed for the working environment where 360° hand protection from mechanical hazard is required. A 13-gauge seamless liner offers not only flexibility but durability, thus increasing productivity and safety. A soft yet durable nitrile coating technology "MicroFinish®" adheres to virtually any dry or slippery surface.

#### FEATURES

#### **Oil Resistant**

Unlike similar gloves available in the market, ActivGrip™ 565/566 offer more promising protection against oil penetration. Double coated surface keeps hands clean for oily material handling.

With  $\mathsf{MicroFinish}^{\texttt{B}}$  technology, a soft yet durable nitrile coating promises its performance under dry, wet, and oily conditions.

Comfort A 13-gauge seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue.

#### PRODUCT

Material Nitrile Liner 13-Gauge | Seamless | Polyester/ Cotton Color Green Size 7/S-10/XL Length AG565: 10 inch(26cm) AG566: 12 inch(30cm) Carton Quantity 72 pairs Individual Package N/A



Pat. No

NBR MicroFinish® Technology: U.S. Pat.No. 8,387,167 / EP Pat.No. 2143551



11

**Grip Performance** 



Gloves with innovative moisture absorbing and evaporating fibers. Maximize your comfort.

#### **AirexDry**<sup>®</sup> 530



#### **MAXIMIZING YOUR COMFORT**

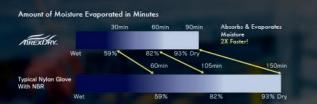
#### DESCRIPTION

AirexDry<sup>®</sup> is proudly released with Smart<sup>™</sup> liner technology with innovative moisture sensitive fibers. Coated with breathable nitrile in a cool, recognizable blue design, AirexDry<sup>®</sup> is durable, yet offers all around breathability with a single MicroFinish<sup>®</sup> coating. Approved by Sanitized AG with the original formula, AirexDry<sup>®</sup> promises ultimate freshness and ensures 100% safety for the skin. AirexDry® is also REACH compliant and OEKO-TEX® certified.

#### FEATURES

#### Be "SMART"

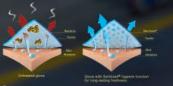
Towa's brand new Super Moisture Absorbent & Reduction Textile, or simply SMART™ liners absorb and evaporate moisture at a faster, while offering fresh feelings. Patent pending SMART™ technology eliminates uncomfortable feelings and assures maximum comfort in many work situations.



#### The Genuine MicroFinish®

The grip performance of MicroFinish® is created by a flexible compound filled with thousands of microscopic pockets to create a vacuum which disperses fluids and allows the entire grip surface to make clean contact with objects.

Fresh and Clean Sanitized® Becoming an official partner of Sanitized AG of Switzerland, Towa proudly offers AirexDry<sup>®</sup> with the original patented formula to bring absolute freshness to AirexDry®



Pat. No

ark of Sanitized AG

#### All Around Breathability

To maximize the performance, AirexDry<sup>®</sup> features an original single layer MicroFinish<sup>®</sup> coating, making AirexDry<sup>®</sup> all around breathable for maximum airflow.

#### PRODUCT

Material Nitrile Liner 13-Gauge | Seamless | Nylon Carton Quantity 144 pairs Color Liner: Blue&White,Coating: Blue Individual Package Available

Size 6/XS-11/XXL



Hem

7/S 8/M 9/L

Color 10/XL 11/XXL

NBR MicroFinish® Technology: U.S. Pat.No. 8,387,167 / EP Pat.No. 2143551 Overdip Technology: U.S. Pat.No. 15/372,646 / EP Pat.No. 16799644.6 SMART Technology: U.S. Pat.No. 9,913,502

#### ActivGrip™ XA-326 326

#### **ALL-AROUND PROTECTION**

#### DESCRIPTION

ActivGrip™ XA-326 is taking Towa's already impressive line of premium industrial gloves a step further into the future. The XA-326 is specifically designed to provide maximum "all-around" performance on slippery grip applications in non-hazardous chemical environments. The 13-gauge seamless wooly nylon liner and "backhand coated style" provide an excellent flexibility, minimizing hand fatigue, thus increasing productivity. A soft yet durable latex coating technology "MicroFinish®" adheres to virtually any dry or slippery surface.

#### FEATURES

#### **Covered Backhand**

"Backhand Coated Style" provides more safety to all fingers as well as more protection from soil, dirt, and water penetration.

Water Resistant And Less Penetration Unlike similiar glove available in the market, ActivGrip™ XA-326 offers more protection against water penetration into not only the palm but also the fingers. The double coated surface keeps hands clean from water penetration.

Grip Performance With MicroFinish® technology, a soft yet durable latex coating promises its performance under dry and wet conditions

#### Comfort

A 13-gauge seamless nylon liner and ergonomic design assure maximum comfort and minimum hand fatigue.

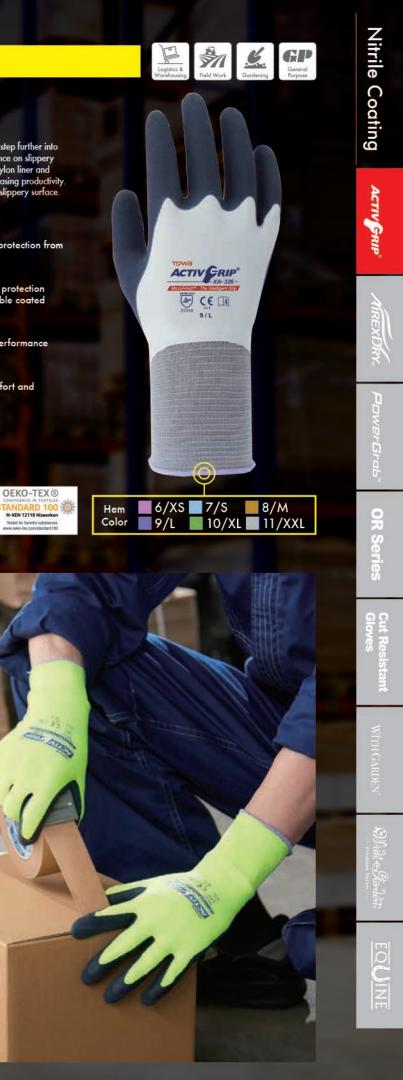
#### PRODUCT

Material Latex Liner 13-Gauge | Seamless | Nylon Color Liner: Gray, Coating: White & Blue Size 6/XS-11/XXL Carton Quantity 144 pairs Individual Package Available









#### PowerGrab<sup>®</sup> Premium 340

#### **ULTIMATE GRIP WITH MICROFINISH®**

#### DESCRIPTION

Fully coated thumb area offers more protection. Unlike similar gloves in the market that leave the top of the thumb uncoated and unprotected, PowerGrab<sup>®</sup> series fully coat the thumb, protecting the vulnerable area while offering an excellent grip performance.

#### FEATURES

Leaching Proteins, chemical substances, and odor are leached from PowerGrab® series to minimize allergic reactions.

#### Safety

Extra coating of thumb area assures the most important aspect, safety.

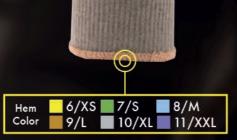
**Grip Performance** Revolutionary MicroFinish® promises outstanding wet and dry handling.

Comfort A 10-guage seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue.

#### PRODUCT

Material Latex Liner 10-Gauge | Seamless | Poly/Cotton Color Liner:Brown,Coating: Brown Size 6/XS-11/XXL Carton Quantity 72 pairs Individual Package Available





E CE II %

#### PowerGrab<sup>®</sup> KEV4 344

#### **PROTECTION WITH KEVLAR® FIBER**

#### DESCRIPTION

PowerGrab<sup>®</sup> KEV4 is a combination of Kevlar<sup>®</sup> fiber and Microfinish<sup>®</sup> technology, promising the outstanding cut resistance and excellent grip performance. Just like other PowerGrab<sup>®</sup> series, the thumb of PowerGrab<sup>®</sup> KEV4 is fully coated for protecting the vulnerable area.

#### FEATURES

Leaching Proteins, chemical substances, and odor are leached from PowerGrab<sup>®</sup> series to minimize allergic reactions.

Safety Extra coating of thumb area assures the most important aspect, safety. **Cut Resistance** 

PowerGrab® KEV4 together with Kevlar<sup>®</sup>, a choice for bullet resistant vest, offers the high assurance of cut resistant protection.

**Grip Performance** Revolutionary MicroFinish® promises outstanding wet and dry handling.

Comfort A 10-gauge seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue.

Cat II 2444 3X43C X2XXXX CUT

**Micro**Einish<sup>™</sup>

DuPont"

Kevlar.

#### PRODUCT

Material Latex Liner 10-Gauge | Seamless | Kevlar® Color Liner:Yellow,Coating:Blue Size 7/S-11/XXL Carton Quantity 72 pairs Individual Package Available



rowa 34 PowerGrab

7/S 8/M 9/L

10/XL 11/XXL

Hem

Color

## PowerGrab™

The essential standards in general purpose protection, Super Grip Performance, Strength and Durability.

#### PowerGrab<sup>®</sup> Plus 341/342

### **ULTIMATE GRIP WITH MICROFINISH®**

#### DESCRIPTION

PowerGrab<sup>®</sup> Plus is a next generation of PowerGrab<sup>®</sup>. Already well recognized MicroFinish<sup>®</sup> technology makes it possible to promise the outstanding grip performance. Just like other PowerGrab® series, the thumb of PowerGrab® Plus is fully coated for protecting the vulnerable area.

#### FEATURES

#### Leaching

Proteins, chemical substances, and odor are leached from PowerGrab® series to minimize allergic reactions.

#### Safety

Extra coating of thumb area assures the most important aspect, safety.

Grip Performance Revolutionary MicroFinish® promises outstanding wet and dry handling.

Comfort

A 10-guage seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue.

#### PRODUCT

## Material Latex

Liner 10-Gauge | Seamless | Poly/Cotton Color Liner:Gray (341) /Yellow (342) ,Coating: Blue Size 6/XS-11/XXL **Carton Quantity** 72 pairs Individual Package Available



**Micro**Finish<sup>™</sup>



#### PowerGrab<sup>®</sup> KEV Thermo 345



PowerGrab" KEV Thermo 345

#### **PROTECTION WITH KEVLAR® FIBER**

#### DESCRIPTION

PowerGrab® KEV Thermo is specifically designed to provide extra warmth and cut resistance. Just like other PowerGrab® series, the thumb of PowerGrab® KEV Thermo is fully coated for protecting vulnerable area.

#### FEATURES

Extra Warmth and Cut Resistance A 10-gauge napped Kevlar® and Acrylic liner provide an excellent warmth as well as outstanding cut resistance.

Comfort Unlike similar gloves available in the market, PowerGrab® KEV Thermo offers more protection to water penetration. Double coated surface keeps hands clean for water handling.

#### Grip Performance

With MicroFinish® technology, a soft latex coating promises its performance under dry and wet conditions.

#### PRODUCT

Material Latex Liner 10 Gauge | Seamless | Napped Acrylic & Kevlar® fiber Color Liner:Yellow,Coating:Brown Size 7/S-11/XXL **Carton Quantity** 72 pairs Individual Package N/A





PowerGrab

0000

Thermo



#### ULTIMATE WORKABILITY

#### DESCRIPTION

Long lasted gloves for cold weather are available from most trusted PowerGrab<sup>®</sup> series. PowerGrab<sup>®</sup> Thermo fully coat the thumb, protecting the vulnerable area while offering an excellent grip performance.

#### **FEATURES**

Extra Warmth Napped acrylic liner makes it possible to work under cold conditions.

Safety Extra coating of thumb area assures the most important aspect, safety.

**Grip Performance** Revolutionary MicroFinish<sup>®</sup> coating promises outstanding wet and dry handling.

Comfort A 10-gauge seamless liner and ergonomic design assure a maximum comfort and minimum hand fatigue

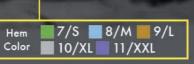
#### PRODUCT

Material Latex Liner 10-Gauge | Seamless | Napped Acrylic Color Liner:333 Lemon yellow/ 334 Yellow / 335 Orange, Coating: Brown Size 7/S-11/XXL

Carton Quantity 72 pairs Individual Package Available







### 310 PowerGrab<sup>®</sup> Katana

#### ULTIMATE PROTECTION WITH KEVLAR® FIBER AND STEEL FIBER

#### DESCRIPTION

PowerGrab<sup>®</sup> Katana is specifically designed to provide outstanding cut resistance and excellent grip performance. A combination of Kevlar<sup>®</sup> fiber and steel fiber promises stable cut resistance. Just like other PowerGrab<sup>®</sup> series, the thumb of PowerGrab<sup>®</sup> Katana is fully coated for protecting vulnerable area. Both Crincke finish and Microfinish<sup>®</sup> are available for PowerGrab<sup>®</sup> Katana.

#### FEATURES

**Cut Resistance** PowerGrab® Katana is designed to offer a superior cut level of protection with strength and durability.

Safety Extra coating of thumb area assures the most important aspect, safety.

**Grip Performance** Crinkle finish and specially formulated latex guarantee wet and dry handling.

#### PRODUCT

Material Latex Liner 10-Gauge | Seamless | Kevlar® fiber/ Steel fiber Color Liner: Yellow, Coating: Blue Size 7/S - 11/XXL Carton Quantity 72 pairs Individual Package Available



#### PowerGrab<sup>®</sup> Katana MF 311

#### ULTIMATE PROTECTION WITH KEVLAR® FIBER AND STEEL FIBER

#### DESCRIPTION

PowerGrab<sup>®</sup> Katana MF is specifically designed to provide outstanding cut resistance and excellent grip performance. A combination of Kevlar<sup>®</sup> fiber and steel fiber promises stable cut resistance. Just like other PowerGrab<sup>®</sup> series, the thumb of PowerGrab<sup>®</sup> Katana MF is fully coated for protecting vulnerable area. Both Crincke finish and Microfinish<sup>®</sup> are available for PowerGrab<sup>®</sup> Katana.

#### FEATURES

Cut Resistance PowerGrab<sup>®</sup> Katana MF is designed to offer a superior cut level of protection with MicroFinish<sup>®</sup> technology.

Safety Extra coating of thumb area assures the most important aspect, safety.

**Grip Performance** Revolutionary MicroFinish® promises outstanding wet and dry handling

#### PRODUCT

Material Latex Liner 10-Gauge | Seamless | Kevlar® fiber/ Steel fiber Color Liner: Yellow, Coating: Blue Size 7/S - 11/XXL Carton Quantity 72 pairs Individual Package Available







# **OR Series**

General purpose PVC gloves that stand up to tough conditions

#### OR650/651



**OR652** 

፱ ርር 🗉

9/L

#### DESCRIPTION

The secret to the OR series's effectivness is a carefully combined engineering and compounding. OR 650/651/652 feature specially blended compounds that resist the toughest situations like wet, oily, and cold applications. The ergonomically designed hand shape provides a natural fit and better comfort performance.

#### EATURES

and the

Comfort A 13-gauge seamless liner and ergonomic desigh assure a maximum comfort and minimum hand fatique.

Workability A special soft compound assures that the gloves will stay soft and its softness minimizes hand fatigue.

Hygiene Antibacterial treatment is applied for the clean working environment.



PRODUCT

Material Soft PVC

Color Orange

Size 7/S-11/XXL

Length 650:10 inch(26cm) 651:12 inch(30cm)

**Carton Quantity** 72 pairs

Individual Package N/A

Liner 13-Gauge | Seamless | Cotton

#### **OR652**

#### DESCRIPTION

OR652 is available with heatsealed PVC sleeves, reinforced to prevent tearing and punctures. The 60 cm overall length and elastic collar provide forearm protection in the harsh, non-chemica environment.

#### **OR653** Thermo

#### DESCRIPTION Detachable 7-gauge napped

acrylic knit inner glove is attached to OR651. OR653 Thermo offers great warmth and keeps its fexibility in cold temperature (-20°C/-4°F)

## 346/347 PowerGrab® Thermo 3/4

#### **ULTIMATE WORKABILITY**

#### DESCRIPTION

PowerGrab® Thermo 3/4 is specifically designed to provide extra warmth and excellent safety. In addition to the fully coated thumb like other PowerGrab® series, all fingers and knuckles are coated for protection vulnerable areas.

#### FEATURES

#### **Extra Warmth and Safety**

The 3/4 covered coating offers more warmth as well as more safety to all fingers and knuckles by keeping the user's hand away from soil, dirt and water penetration

**Comfort** Unlike similar gloves available in the market, PowerGrab® Thermo 3/4 offers more protection against water penetration. The double coated surface keeps hands clean for water handling

#### **Grip Performance**

With MicroFinish® Technology, a soft latex coating promises its performance under dry and wet conditions.

#### PRODUCT

Material Latex Liner 10-Gauge | Seamless | Napped Acrylic Color Liner: 346 Yellow/ 347 Orange, Coating: Brown Size 7/S-11/XXL

Carton Quantity 72 pairs Individual Package Available

#### Pat. No.

U.S. Pat. No. D704,381 EP RCD No. 002089912





#### PowerGrab<sup>®</sup> Thermo W 348

#### **ULTIMATE WORKABILITY**

#### DESCRIPTION

PowerGrab<sup>®</sup> Thermo W is specifically designed to provide extra warmth and excellent grip performance. Just like other PowerGrab<sup>®</sup> series, the thumb of PowerGrab<sup>®</sup> Thermo W is fully coated for protecting vulnerable area.

#### **FEATURES**

#### Extra Warmth

"Two Layer liner" provides more warmth by keeping warm air between the inner and the outer liner. The two layer liner also offers an excellent flexibility, minimizing hand fatigue, thus increasing productivity.

Comfort Unlike similar gloves available in the market, PowerGrab® Thermo W offers more protection against water penetration. Double coated surface keeps hands clean for water handling.

#### $\begin{array}{l} \textbf{Grip Performance} \\ \textbf{With MicroFinish}^{\circledast} \text{ technology, a soft Latex coating promises its performance under dry and} \end{array}$ wet conditions.

#### PRODUCT

Material Latex Liner Inside: 10-Gauge Acrylic Outside: 13G Polyeste Color Liner: Inside: Lemon Yellow Outside: Black, Coating: Brown, Size 7/S-11/XXL Carton Quantity 72 pairs Individual Package Available

Pat. No U.S. Pat. No. D744,699 EP RCD No. 002134833





Warning: This product can expose you to chemicals including Di(2-ethylhexyl)phthalate (DEHP), which is/are known to the State of California to 🕰 cause cancer and birth defects or other reproductive harm. For more information go to:www.P65Warnings.ca.gov



# **Cut Resistant** Gloves

Ultimate protection with Cut Resistant materials.



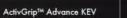
fatigue. Workability A special durable compound assures that the gloves will stay reliable in tough working environment. Hygiene Antibacterial treatment is applied for the clean

working environment.

DESCRIPTION

FEATURES

Comfort



PowerGrab® KEV Thermo

1X42C

PowerGrab® KEV4

3X43C

EN 388:2016	АВ		c
ANSI/ISEA 105-16	A1	A2	A3
		EN388:2016	EN365-2016 EN365-2016



4342B



### OR655/656



OR655

E (E 🔳

9/L

### DESCRIPTION

OR656

E (( II

9/L

OR657 is available with heat-sealed PVC sleeves, reinforced to prevent tearing and punctures. The 60 cm overall length and elastic collar provide forearm protection in the harsh, non-chemical environment

### **OR656 KEV**

OR657

न 🤆 🗇 9/L



Hygiene Antibacterial treatment is applied for the clean working environment.



The secret to the OR series's effectivness is a carefully combined engineering and compounding. OR655/656/657 have a dipped rough finish that makes handling wet and slippery materials easier and safer. An anti-oil compound vinyl film actually works against a slippery surface to ensure a good grip performance. The ergonomically designed hand shape provides a natural fit and better comfort.

#### PRODUCT

A 13-gauge seamless liner and ergonomic desigh assure a maximum comfort and minimum hand

Material Durable PVC Liner 13-Gauge | Seamless | Cotton Color Blue Size 7/S-11/XXL Length 655:10 inch(26cm) 656: 12 inch(30cm)

Carton Quantity 72 pairs Individual Package N/A



### **OR658 Thermo**



The secret to the OR series's effectivness is a carefully combined engineering and compounding. OR655/656/657 have a dipped rough finish that makes handling wet and slippery materials easier and safer. An anti-oil compound vinyl film actually works against a slippery surface to ensure a good grip performance. The ergonomically designed hand shape provides a natural fit and better comfort.

OR656 together with Kevlar® fiber offers the high assurance of cut resistant protection on knit area.

ation of Kevlar® fiber and cotton great

#### PRODUCT

Material Durable PVC Length 13-Gauge | Seamless | Kevlar® fiber/Cotton Color Blue Size 8/M-10/XL Length 12 inch(30cm) **Carton Quantity** 72 pairs Individual Package N/A



Warning:This product can expose you to chemicals including Di(2-ethylhexyl)phthalate (DEHP), which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to:www.P65Warnings.ca.gov





21

# Nitrile Coating

**OR Series** 

# WITH GARDEN<sup>™</sup>

WithGarden<sup>®</sup>, a solution to your gardening and outdoor needs, is available with a variety of stylish color and design. With the MicroFinish<sup>®</sup> technology, all WithGarden<sup>®</sup> gloves promise the performance and safety, making your gardening work more enjoyable. The MicroFinish® is widely recognized in the industrial world around the globe for its performance.

## for Sensitive Touch

Coating

Nitrile / Latex



#### 315/316/317/318 Flora

#### DESCRIPTION

Soft n Care® Flora comes with four colors, Rose Pink, Aqua Blue, Lemon Yellow and Sunshine Orange. Covered with natural rubber, gloves are soft and fit your hands perfectly. The elegant and stylish Flora is suitable for sensitive work such as planting small pots, watering plants and fruit picking. The 13-gauge polyester liner offers maximum comfort and reduces hand fatigue.

8/M 9/L

#### PRODUCT

Material Latex Liner 13-Gauge | Seamless | Polyester Size 7/S-8/M Carton Quantity 72 pairs Individual Package Available

HemColor

**Micro**Finish<sup>™</sup>



for Durable Work

#### 595/596/597/598 Landscape

#### DESCRIPTION

Soft n Care® Landscape comes with four colors, Burgundy, Navy, Forest Green and Violet. For active work, Soft n Care® Landscape is coated with nitrile. It is suitable for people who are allergic to natural rubber. 13-gauge nylon liner fits your hands perfectly, offering maximum comfort and reduces hand fatigue.

BURGUND

#### PRODUCT

Material Nitrile Liner 13-Gauge | Seamless | Nylon Size 7/S-9/L Carton Quantity 72 pairs Individual Package Available

#### MicroFinish

#### Pat. No

NBR MicroFinish® Technology: U.S. Pat. No. 8,387,167 / EP Pat. No. 1703/2143551 Overdip Technology: U.S. Pat. No. 8,302,215 / EP Pat. No. 2253234







ActivGrip <sup>1</sup> <sup>m</sup> Omega series	ActivGrip <sup>™</sup> ATA®
c	D
А3	A4
EN388 2014	EN388 2014





Mith Sarden

## **Premium Series**



## Luminus

#### DESCRIPTION

Lovely design gives you enjoyment. MicroFinish® - Ultimate coating technology promises unparalleled grip performance. A soft yet durable nitrile coating technology adheres to virtually any dry or slippery surface. Both nitrile and latex coating are available.

#### PRODUCT

Material 506/507/508 Nitrile 367/368/369 Latex

Liner 13-Gauge | Seamless | Polyester Size 7/S-9/L Carton Quantity 72 pairs Individual Package Available

#### MicroFinish"



20

ROSE PINK Nitrile:WG506 Latex:WG367

30

Latex:WG368 Latex:WG369



#### DESCRIPTION

Long sleeve makes the hand clean from soil. MicroFinish® - Ultimate coating technology promises unparalleled grip performance. A soft yet durable latex coating technology adheres to virtually any dry or slippery surface.

#### PRODUCT

Material Latex Liner 13-Gauge | Seamless | Nylon Size 7/S-9/L Carton Quantity 72 pairs

Individual Package Available

#### **Micro**Finish<sup>™</sup>







#### 375/376 Thermal

#### DESCRIPTION

Soft n Tough® Thermal comes with two colors, Lemon Yellow and Ash Grey. A solution to outdoor work in winter season. Best suited for heavy gardening work as well as do-it-yourself projects. The thumb of Soft n Tough<sup>®</sup> Thermal is fully coated for protecting the vulnerable area.

#### PRODUCT

Material Latex		Hem
Liner 10-Gauge   Seamless		Color
Napped Acrylic		7/S
Size 7/S-9/L		8/M
Carton Quantity 72 pairs Individual Package Available	MicroFinish™	9/L



26

#### 365/366 Original

#### DESCRIPTION

Soft n Tough® Original comes with two colors, Ever Green and Brick Brown. Best suited for heavy gardening work as well as do-it-yourself projects. 10-gauge liner with open back design makes it easy to work. The thumb of Soft n Tough® Original is fully coated for protecting the vulnerable area

#### PRODUCT

Material Latex Liner 10-Gauge | Seamless | Polyester/Cotton Size 7/S-9/L Carton Quantity 72 pairs Individual Package Available







LEMON YELLOW WG375

ASH GREY WG376

#### DESCRIPTION

The gardening gloves for children, WithGarden® KIDS, are available from WithGarden® series. Covered with natural rubber, gloves are soft and fit children's hands perfectly. The cute and stylish gloves is suited for sensitive work such as planting small pots, watering plants, and fruit picking. The 13-gauge seamless liner offers maximum comfort and reduces hand fatigue.

#### PRODUCT

Material Latex Carton Quantity 72 pairs Individual Package Available



EXIDRY



NAVY(NYLON) MOSS GREEN(NYLON) 5XXS:WG373 4XXXS:WG353

#### **NEW PERSONAL PROTECTIVE EQUIPMENT REGULATION 2016/425**

#### CATEGORISATION

Category I Minimal risks e.g., gardening gloves

Category II Risks other than those listed in Categories I and III e.g., general handling gloves which require cut, puncture, and abrasion protection

Category III Risks that may cause very serious consequences such as death or irreversible damage to health e.g., chmicals, biological agents, electric shock and live working

#### **EUROPEAN STANDARDS AND CE MARKING**

#### i EN 420: 2003+A1:2009

General requirements for protective gloves



Mechanical protection

Performance level rating	1	2	3	4	5	
a Abrasion Resistance (Cycles)	100	500	2000	8000		
b Blade Cut Resistance (Coupe Test/Index)	1.2	2.5	5.0	10.0	20.0	
c Tear Resistance (Newton)	10	25	50	75	2	
d Puncture Resistance (Newton)	20	60	100	150		-
Performance level rating	A	В	C	D	E	F
e EN ISO Cut Resistance (Newton)	2	5	10	15	22	3
f EN Impact Protection	PASS or FAIL					

Note: Level X can also be applied for a through e above, which means "not tested " or "not applicable" If the glove has an impact protection, this information is given by the letter P as the óth and last sign. If no P sign, no impact protection is claimed.



abcdef

Performance levels	1	2	3	4 < 2 secs < 5 secs
a Burning behaviour (after flame and after glowtime)	< 20 secs no requirement	< 10 secs < 120 secs	< 3 secs < 25 secs	
b Contact heat (contact temperature and threshold time)	100°C > 15 secs	250°C > 15 secs	350°C > 15 secs	500°C > 15 secs
c Convective heat (heat transfer delay)	> 4 secs	> 7 secs	> 10 secs	> 18 secs
d Radiant heat (heat transfer delay)	> 7 secs	> 20 secs	> 50 secs	> 95 secs
e Small drops molten metal (number of drops)	> 10	> 15	> 25	> 35
f Large quantity molten metal (mass)	30 g	60 g	120 g	200 g

#### EN511:200 abc EN 511: 2006 Cold protection

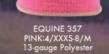
Performance levels	0		2	3	4	
a Convective cold Thermal insulation ITR in m2. ℃/W	Itr < 0,10	0,10 ≤ <i>I</i> ™ < 0,15	0,15 ≤ <i>I</i> тг < 0,22	0,22 ≤ <i>I</i> TR < 0,30	0,30 ≤ <i>I</i> tr	
b Contact cold Thermal resistance R in m2. ℃/W	<i>R</i> < 0,025	$0,025 \le R < 0,050$	$0,050 \leq R < 0,100$	$0,100 \le R < 0,150$	0,050 ≤ <i>R</i>	
c Convective heat (heat transfer delay)	FAIL	PASS		*	( <b>7</b> .)	

Note: 0 is the lowest rating while 4 is the highest.

This pictgram indicates that the user has to consult the 'instructions for use'.



## FOR HORSE RIDING



EQUINE 358 BLUE:4/XXXS-8/M 13-gauge Polyester

#### ESCRIPTION

Strength and dexterity combined - means you car muck out, fasten buckles and adjust tack easily. MicroFinish® - Ultimate coating technology promi excellent grip performance. Double dipped coating keeps liquids out but is still flexible enough to use for riding.

Material Latex Carton Quantity 72 pairs Individual Package Available

MicroFinish"





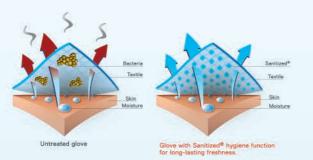
## **STANDARD 100 by OEKO-TEX®**



The STANDARD 100 by OEKO-TEX<sup>®</sup> is a worldwide consistent, independent testing and certification system for raw, semi-finished, and finished textile products at all processing levels, as well as accessory materials used. Examples of articles that can be certified: raw and dyed/finished yarns, woven and knitted fabrics, accessories, such as buttons, zip fasteners, sewing threads or labels, ready-made articles of various types (garments of all types, domestic and household textiles, bed linen, terry products and much more).

## Sanitized<sup>®</sup> Hygiene Function

The Sanitized<sup>®</sup> hygiene function combines freshness, comfort and material protection, which are all aspects that can be used in textiles and polymer items. The idea behind this protective technology is to reduce and prevent the colonization and multiplication of bacteria, mold and mildew, algae or dust mites – the cause of undesirable odors, staining and material fatigue – through the antimicrobial treatment on various types of material. The antimicrobial Sanitized<sup>®</sup> treatment, which has been tried and tested worldwide for many years, offers deep-down protection.



Sanitized

Actifresh

Sanitized<sup>®</sup> is a registered trademark of Sanitized AG. This product includes the active biocidal substane Zinc pyrithione

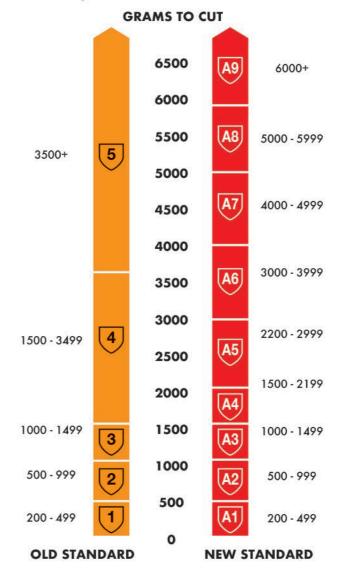
#### ANSI / ISEA 105-2016

CUT PROTECTION CLASSIFICATION

The American National Standards Institute (ANSI) released a new edition of the ANSI/ISEA 105 standard in March 2016. The changes include the classification levels and the method for testing gloves.

#### **Classification Levels**

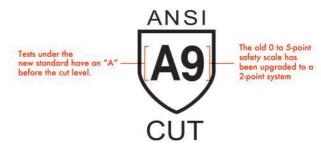
The new ANSI standard is now divided into nine different protection levels on a progressive scale, offering more detailed indication on cut-resistant gloves.

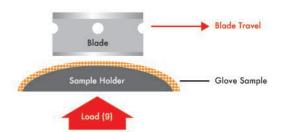


The old standard measured the weight in grams for a blade to cut material with either a Cut Protection Performance Tester (CPPT) or a Tomodynamometer Test Machine(TDM). The new standard allows only one type of machine, TDM-100, to be used.

#### Understanding ASTM F2992-15 Test Methods

The sample is cut by a straight-edge blade, under load, that moves along a straight path. The sample is cut five times each at three different loads with a new blade for each cut and the data is used to determine the required load to cut through the sample at a specified reference difference. This is referred to as the cutting force, which is then equated to a cut level.





## TOWa

**Towa Corporation** 

227 Tsubuku Honmachi,830-0047 Kurume,Fukuoka,Japan Phone:+81-942-32-8863 Fax:+81-942-31-3219

www.towagloves.com Kevlar is a registered trademark of E.I. du Pont de Nemours and Company

# A1905

# Towa Corporation with its Global Network



#### **Company name Towa Corporation**

Headquarters Kurume City,Fukuoka,Japan

#### Branch offices [Overseas] Shanghai, China

Seattle, U.S.A

#### Branch offices [Japan]

Sapporo Tokyo Osaka Fukuoka

#### **GET MORE PRODUCT INFORMATION :**

www.towagloves.com

Our website provides you with easy access to our products with information on product features and their benefits as well as technology information.



**Downloadable documents** 

 Instruction for use Product brochures

• EU declaration of conformity



#### Factries

Saga, Japan Shanghai, China Penang, Malaysia Pabna, Bangladesh

With access to TOWA product features and certification information