



**BRASS  
KNUCKLE®**

Protective Products

HAND PROTECTION | PROTECTIVE EYEWEAR | ERGONOMIC SAFETY

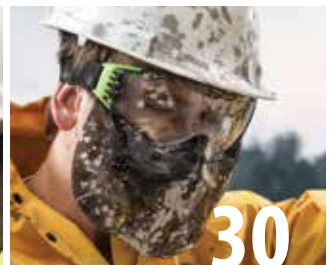




# BRASS KNUCKLE® PROTECTIVE PRODUCTS

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# WHEN YOU KNOW YOU CAN DO IT BETTER, YOU SHOULD.

Saving customers money by skimping on quality is a recipe for disaster in the safety glove market. That's why we created Brass Knuckle®.

## WE KNEW WE COULD DO IT BETTER.

- We focus on end users and their job-specific applications. That's why we noticed there were gaps in the safety glove category — where the level of protection, fit, value, or comfort was not quite up to the job. We decided to fill those gaps. We know how to do it better.
- Global sourcing, combined with our own expertise, allows us to do the research and development, manufacturing, product testing, and supply chain processes for our own personal protective products.
- Brass Knuckle® products are priced competitively — as well as or better than any similar products. We bring no new product to market, however attractive the price, unless we can improve application-based safety and help increase worker compliance. These are our ONLY considerations. Please compare our Brass Knuckle® quality to that of any other brand.

WITH BRASS KNUCKLE®  
YOU GET MAXIMUM  
PROTECTION ALONG WITH  
COMFORT AND DEXTERITY.



**BRASS  
KNUCKLE®**

# A WORD ABOUT VALUE.

We know there is no single “perfect” protective product for every worker, no matter the brand or the cost. If a glove, eye protection, or ergonomic protection product isn’t comfortable or easy to work in, people won’t wear it. And that may compromise compliance. We believe the best protective solutions come from matching the construction and material to the application, and then ensuring it is the best quality for the price. Gloves and ergonomic products have to afford flexibility, eye protection, uncompromising fit, style, and long-wearing advantages, like anti-fog and anti-scratch protection.

That’s what value means to us. Brass Knuckle® Protective Products offers quality, selection, and protection that best meets your needs — and those of your workers.

# A WORD ABOUT US.

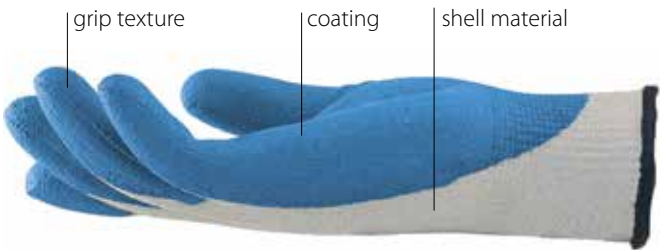
Brass Knuckle® was born of a partnership with one of North America’s oldest dedicated safety product supply companies. From product inception to quality control, we manage every aspect of a glove’s construction.

Brass Knuckle is a member of the Volk Enterprises family of companies, whose international strategic alliances with documented professional supply partners allow for the delivery of a full range of safety products, programs, and services to clients across the globe.



	Abrasion		Tear		Puncture	Oils and Grease	Hydrocarbons	Acids	Non Ketonic Solvents	Ketonic Solvents	Detergents	Tactile Sensitivity
Latex	F	VG	F	P	P	G	P	G	VG	G		
Nitrile	VG	P	VG	VG	VG	G	G	P	G	G		
Polyurethane	G	P	G	G	G	VG	F	P	VG	VG		

VG=Very Good    G=Good    F=Fair    P=Poor



## BRASS KNUCKLE® GLOVE COMPARISON CHART

	Brand	SKU	Use/Resistance	Shell/Liner	Shell Color	Gauge	Coat	Coat Color	Grip	Other Characteristics	EN 388				ANSI
											Abrasion	Coup Cut	Tear	Puncture	
SMARTCUT	SmartShell	BKCR4499	Cut/Impact	UHMWPE	Lime	13	Nitrile	Black	Sandy	TPR Padding	4	5	4	3	A5*
	SmartCut	BKCR2403	Cut	HPPE/ Nylon/Synthetic GLF	Salt and Pepper	18	Polyurethane	Black	Flat	Thumb Crotch Reinforcement	3	4	4	1	A2
	SmartCut	BKCR3520	Cut	HPPE	Gray	15	Nitrile	Gray	Foam		4	3	4	2	A2
	SmartCut	BKCR404	Cut	HDPE	Salt and Pepper	13	Polyurethane	Gray	Flat		4	5	4	4	A3
	SmartCut	BKCR4300	Cut	HDPE	Salt and Pepper	13	Latex	Blue	Crinkle	Double Coat, Environmental Solution	4	5	4	3	A3
	SmartCut	BKCR4420	Cut	HDPE	Gray	13	WBPU Coating / Nitrile	Black	Sandy		4	5	4	3	A4
	SmartCut	BKCR303	Cut	HDPE	Salt and Pepper	13	Polyurethane	Gray	Sandy						A2
SMARTFLEX	SmartFlex	BK401	General Purpose	Nylon	Black	13	Polyurethane	Gray	Flat	Nitrile Dots	4	1	3	1	NT
	SmartFlex	BK402	General Purpose	Nylon	White	13	Polyurethane	White	Flat		4	1	3	1	NT
	SmartFlex	BK403	General Purpose	Nylon	Black	13	Polyurethane	Black	Flat		4	1	3	1	NT
	SmartFlex	BK411	General Purpose	Nylon	White	13	Nitrile	Gray	Flat		4	1	2	1	NT
	SmartFlex	BK420	General Purpose	Nylon	Gray	13	Nitrile	Black	Foam		4	1	2	1	NT
	SmartFlex	BK504	General Purpose	Nylon	Red	15	Polyurethane	Black	Foam		3	1	2	0	NT
	SmartFlex	BK520	General Purpose	Nylon / Spandex	Black	15	Nitrile	Black	Foam		4	1	4	1	NT
	SmartFlex	BK529	General Purpose	Nylon / Spandex	Black	15	Nitrile	Black	Foam		4	1	4	1	NT
	SmartFlex	BK315	General Purpose	Polyester	Black	13	Latex	Black	Crinkle		3	1	2	0	NT
	SmartFlex	BK350	General Purpose	Polyester Knit	Blue	15	Foam Latex	Dark Blue	Sandy		2	1	3	1	NT
	SmartFlex	BK360	General Purpose	Napped Acrylic	Black	13	Foam Latex	Black	Foam		2	2	4	1	NT
SMARTSKIN	SmartSkin	BKPVC2BLK-145FC	Chemical	Cotton	NA	NA	PVC	Black	Sandy	Gauntlet Cuff	4	1	2	1	NT
	SmartSkin	BKPVC2BLK-125FC	Chemical	Cotton	NA	NA	PVC	Black	Sandy	Gauntlet Cuff	4	1	2	1	NT
	SmartSkin	BKNITR2	Chemical	Flock	Aqua	NA	PVC	Black	Sandy	Gauntlet Cuff	4	1	3	1	NT

\*in palm

NT: Not Tested. Testing not required.

### ABOUT CUT-RESISTANCE LEVELS: ANSI/ISEA 105 VERSUS EN 388

In this catalog you will see two different shield symbols indicating a glove's cut-level rating. Each shield represents the results of testing by the methods of two different major standards.

#### U.S. Standard: ANSI/ISEA 105

In the U.S., the standard is ANSI/ISEA 105 (American National Standards Institute), which uses a nine-level scale from A1 to A9 to determine cut scores. (Prior to 2016, this was a 1-5 scale, but it was updated for greater specificity.)

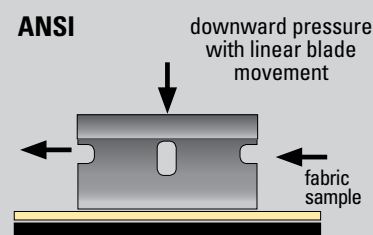
#### How material is tested:

ANSI/ISEA 105 uses the ASTM F2992-15 test method and a Tomodynamometer machine, also called the TDM-100. Material is cut by a straight-edge blade, under load, that moves along a straight path for approximately 20 mm. The sample is cut five times each at three different loads, with a new blade for each cut, until cut-through is achieved.

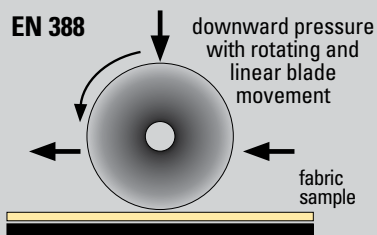
#### ANSI/ISEA 105

Cut Score	Weight to Cut Material (in grams)
A1	200-499
A2	500-999
A3	1000-1499
A4	1500-2199
A5	2200-2999
A6	3000-3999
A7	4000-4999
A8	5000-5999
A9	6000+

#### ANSI



#### EN 388



### EUROPEAN STANDARD: EN 388

The mandatory standard for Europe is EN 388. The rating is a six-character code that combines four digits and two letters.

#### EN 388: WHAT THE NUMBERS MEAN

The four digits correspond to four test rating categories (abrasion resistance, blade cut resistance, tear resistance, and puncture resistance) using the ISO 13997 test method, performed using a circular blade under a fixed load as the blade moves back and forth across the test material. The number 4 is the highest rating for abrasion, tear, and puncture resistance, and 5 is the highest for blade cut resistance.

#### EN 388



4544CX  
 abrasion resistance  
 blade cut resistance  
 tear resistance  
 puncture resistance  
 cut (TDM-100 test)  
 impact protection

#### EN 388: WHAT THE LETTERS MEAN

The first letter measures cut resistance using a second test, the TDM-100, on an A-F scale. The second letter measures results of an impact protection test. The three potential ratings are P=Passed, F=Failed, X=Not Tested. (Gloves that do not offer impact protection will not be subjected to this test.)





## HANDS-DOWN, HANDS ARE MOST VULNERABLE

According to the CDC, the hand is the leading body part injured at work and treated in hospital emergency departments, with acute hand and finger injuries sending over one million workers to the emergency room annually in the United States.

# SMARTCUT™

## CUT-RESISTANT GLOVES

Cut-resistant gloves aren't armor. They need to protect the hands of real people doing real work. Cut-resistant gloves must be flexible, offer a sure grip for handling dry, wet, or oily parts and surfaces, and provide the proper level of cut protection without bulk.

Brass Knuckle®'s **SmartCut™** line offers six cut-resistant glove solutions designed specifically to perform in a wide variety of conditions and applications. They're constructed with a cut-resistant shell (base fabric), a protective coating, and a finish texture for better grip. Every glove is rated with a cut-resistance level to help you choose. We'll help you sort out the right combination for your application.



CUT LEVEL **A5**



## SMARTSHELL™ BKCR4499 UHMWPE CR Level A5\* Shell, Nitrile Coating, Anti-Impact Padding

BKCR4499 offers safety, comfort, flexibility, and grip at the high level you need for heavy-duty work environments. Impact resistant and designed for long, hard days at the toughest job sites.

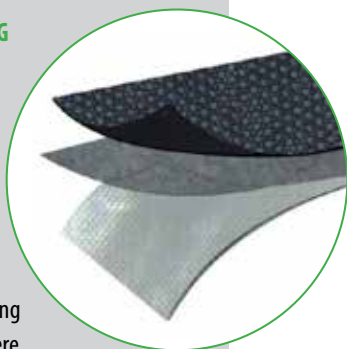
\*Cut testing conducted in palm.



## THE IMPACT OF PADDING

Although there are no industry testing standards for measuring hand-impact protection, any hand-impact testing must evaluate the reduction of peak impact force from a falling object — the leading cause of fractures and severe bruising to the hand.\* Our anti-impact gloves feature thick thermoplastic rubber (TPR) pads strategically placed on the back of the glove for maximum cushioning. TPR is widely used in work gloves to help prevent crushing injuries, abrasions, contusions, punctures, and cuts.

\*2014, *Industrial Safety & Hygiene News*



## FORM MEETS FUNCTION

Determining the right cut-resistant glove form depends on the specific qualities you need for any given function. Brass Knuckle's SmartCut™ glove line protects your workers' hands against cuts and lacerations, stress and strain injuries, and chemical exposure while also providing the most comfortable fit, best grip, and color-coded visibility to help ensure compliance.

EN and ANSI  
cut comparison  
on page 3

Part #	EN 388	ANSI	Coating	Shell/Coat Color	Gauge	Pack Sz	Sizes
BKCR4499	4544	A5 *	Nitrile	Lime/Black	12	12 pair	7-10
BKCR4420	4543	A4	WBPU/Nitrile	Gray/Black	13	12 pair	6-10
BKCR4300	4543	A3	Latex	Salt & Pepper/Blue	13	12 pair	6-10
BKCR404	4544	A3	Polyurethane	Salt & Pepper/Gray	13	12 pair	6-10

\*Cut testing conducted in palm.

## COLOR-CODED WRIST BANDING SIMPLIFIES SIZING

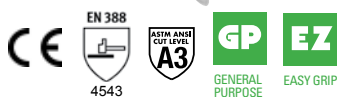
5 6 7 8 9 10 11



### SMARTCUT BKCR4420 HDPE CR Level A4 Shell, WBPU Coating, Nitrile Overcoat

Excellent for metal work, automotive, and stamping or for work in the oil and gas industries. This double-coated protection combines slip resistance\* and permeation protection with high cut resistance in a surprisingly dexterous glove. Color-coded wrists simplify sizing and re-issuing.

\*Ideal for glass handling applications.



### SMARTCUT BKCR4300 HDPE CR Level A3 Shell, Latex Coating

An excellent material-handling glove, the BKCR4300 with latex coating is ideal for processing and handling glass, steel, and plastics. They are available in five sizes and have color-coded wrists to simplify sizing and re-issuing.



### SMARTCUT BKCR404 HDPE CR Level A3 Shell, Polyurethane Coating

Excellent for handling metals, the polyurethane coating provides slip resistance even when exposed to light oils and is proven\* not to mar product surfaces. BKCR404 gloves are available in five sizes and have color-coded wrists to simplify sizing and re-issuing.

\*Ideal for glass handling applications.



Part #	EN 388	ANSI	Coating	Shell/Coat Color	Gauge	Pack Sz	Sizes
BKCR3520	4342	A2	Foam Nitrile	Gray/Dark Gray	15	12 pair	7-11
BKCR2403	3441	A2	Polyurethane	Salt & Pepper/Gray	18	12 pair	6-11
BKCR303	3441	A2	Polyurethane	Salt & Pepper/Gray	13	12 pair	6-11

## CUT LEVEL A2

Reinforced thumb crotch for additional strength and protection between the thumb and forefinger, an area that is susceptible to wear and tear.



### SMARTCUT BKCR3520 HPPE CR Level A2 Shell, Foam Nitrile Coating Reinforced Thumb Crotch

Choose BKCR3520 for Cut Level A2 applications requiring a higher level of tactile sensitivity. The glove's extreme flexibility is derived from its thinner, 15-gauge composite shell. This flexibility is paired with an abrasion-resistant nitrile coat and a reinforced thumb crotch.



### SMARTCUT BKCR2403 HPPE / Nylon/Synthetic GLF Fiber Composite, CR Level A2 Shell, Polyurethane Coating

Light-duty cut protection is balanced against extreme dexterity for tasks calling for very fine motor skills and tactile sensitivity. Feel your way through dry applications with reliable abrasion protection, a great flat-coat grip, and basic ANSI Cut A2 protection.



### SMARTCUT BKCR303 HPPE / Nylon/Synthetic GLF Fiber Composite, CR Level A2 Shell, Polyurethane Coating

The premier glove choice for applications requiring cut resistance and dexterity. The ultra-high molecular-weight polyethylene fiber offers ANSI cut resistance level A2 protection, and the thinner, 13-gauge material facilitates dexterity.



### GET A GRIP: LATEX, NITRILE, AND POLYURETHANE COATINGS

Coatings provide chemical and abrasion resistance as well as critical grip, but the coating material rebalances these characteristics. We'll help you make the smart choice!

	Abrasion	Tear	Puncture	Oils and Grease	Hydrocarbons	Acids	Non Ketonic Solvents	Ketonic Solvents	Detergents	Tactile Sensitivity
Latex	F	VG	F	P	P	G	P	G	VG	G
Nitrile	VG	P	VG	VG	VG	G	G	P	G	G
Polyurethane	G	P	G	G	G	VG	F	P	VG	VG

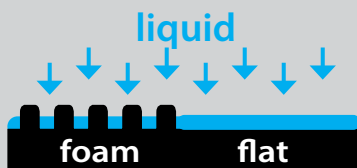
VG=Very Good G=Good F=Fair P=Poor





#### COLOR-CODED WRIST BANDING SIMPLIFIES SIZING

5 6 7 8 9 10 11 12



**Foam Coat:** Liquids fall into channels, allowing for improved surface-to-surface contact. Not as tacky for dry applications.

**Flat (Smooth) Coat:** The best for dry applications. However, liquids will remain on the surface, reducing slip protection.

#### WHAT'S IN YOUR SHELL? UNDERSTANDING HDPE AND HPPE

The shell is the base material that in large part determines the cut-resistance level and flexibility of a glove. We use HDPE for our ANSI Cut Level 4 gloves and HPPE for our ANSI Cut Level 3 gloves.

- **HDPE**, with a strength-to-weight ratio 8 to 15 times higher than steel, creates a super-tough shell providing excellent dexterity without bulk.
- **HPPE** delivers medium cut resistance with a lighter-weight, more flexible material.



# SMARTFLEX™

## GENERAL PURPOSE GLOVES

What makes a good work glove good? Application-specific glove construction is critical. We are expert at understanding fibers, coatings, special features, and other material construction attributes that provide a balance between protection and value.

But it isn't always the glove construction; sometimes it's the construction of the glove.

Brass Knuckle's **SmartFlex™** gloves are a best-in-class solution, providing high levels of cross-functional protection and a glove construction that utilizes the company's SecondSkin™ Form and Fit standard. This means we obsess over the little things, like the natural curvature of the knit body. How the tightness of the knit feels on the skin, and how we can affect flex points at each knuckle to make the first grip of the day as effortless as the last.

We have our standard, and few gloves pass the test. Brass Knuckle is your assurance of very wearable protection.



## SMARTFLEX™ BK420

### Nylon Shell, Foam Nitrile Coating

We designed the SmartFlex™ BK420 general purpose work glove to be a tough protector. BK420 provides excellent performance and comfort while preventing oils from penetrating the glove, making it the workhorse of choice.







## BRASS KNUCKLE: WE OWN OUR PROCESSES

The reality is, you need gloves. Brass Knuckle is expert at bringing together purchasing and safety disciplines to create an ideal balance for your hand-protection program. Our processes were developed by a dedicated safety distributor with more than 70 years of expertise to help you improve safety and savings.



Part #	EN 388	Coating	Shell/Coat Color	Gauge	Pack Sz	Sizes
BK420	4121	Foam Nitrile	Gray/Black	13	12 pair	6-11
BK411	4121	Flat Nitrile	White/Gray	13	12 pair	6-11
BK520	4141	Foam Nitrile	Gray/Black	15	12 pair	7-11
BK529	4141	Foam Nitrile Dot	Gray/Black	15	12 pair	7-11



### SMARTFLEX™ BK411 White Nylon Shell, Flat Nitrile Coating

An excellent assembly glove, BK411 provides enhanced dexterity and tactile sensitivity. The flat gripping surface improves productivity. The white shell is designed to highlight dirt and debris, ideal when product marring or transference of soils is discouraged.



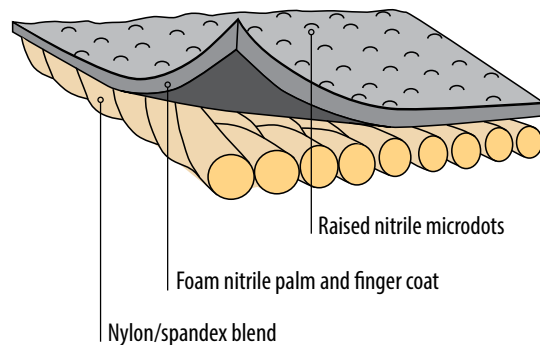
### SMARTFLEX™ BK520 & BK529 Nylon/Spandex Shell, Foam Nitrile Coating

This two-glove series is defined by extreme flexibility with a nitrile coat for abrasion resistance and additional dry or wet slip resistance. BK529 features nitrile dots for even more grip. Wear this glove snug and let it stretch with each move of the hand.

## COLOR-CODED WRIST BANDING SIMPLIFIES SIZING

6 7 8 9 10 11

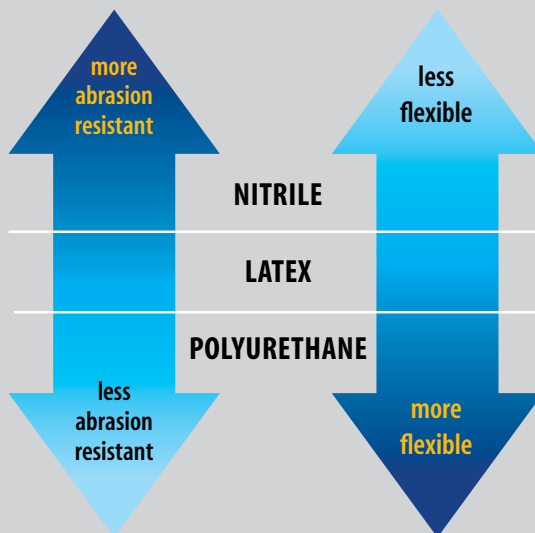
**BK529** gloves feature a fantastic combination construction while delivering a "SmartFit." This glove features a spandex blend, allowing it to wear tight and comfortable, and its special moisture-resistant coating keeps you dry and gripping strong. Microdots give your grip an extra edge.



## HOW TO CHOOSE THE RIGHT GLOVE

Choosing the right glove is a balance of ergonomics, value, and protection. It would be great if all gloves protected like chain mail, fit like spandex, and carried the cost of a single-use product, but that's not realistic.

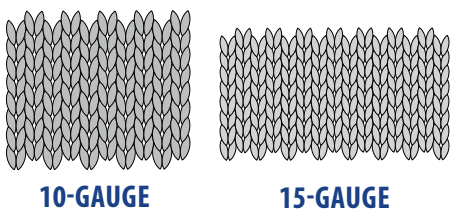
1. Choose the coating you need based on the application. For example, if the application is oily, you need nitrile. If it's dry, polyurethane will do.
2. Understand that the coating you choose affects both dexterity and abrasion resistance. From most to least in terms of flexibility, choose poly or latex rather than nitrile. From most to least in terms of abrasion resistance, choose nitrile first, then latex or poly.
3. Choose the shell based on desired value and your remaining need for flexibility. A 13-gauge nylon glove with poly coat may feel just as dextrous as a 15-gauge nylon shell with a nitrile coat.



## GAUGE

What does "gauge" mean? This is the number of stitches per inch in the knitting of a glove. The lower the number, the thicker and heavier the material. Higher numbers typically mean better dexterity and a thinner glove since the glove is made using thinner threads requiring more stitches per inch. One isn't better than the other — it's all about the intended application.

Brass Knuckle works to achieve a higher gauge when possible to ensure a lightweight, comfortable fit, while still providing necessary strength and protection.



10-GAUGE

15-GAUGE



## SMARTFLEX™ BK401, BK402, BK403, Nylon Shell, Flat Polyurethane Coating

The lightweight material provides enhanced flexibility and dexterity. Whether for automotive, light construction, warehouse applications, or general assembly, this glove offers workers protection from bothersome nicks and abrasions while offering comfort and tactile sensitivity.







Part #	EN 388	Coating	Shell/Coat Color	Gauge	Pack Sz	Sizes
BK401	4131	Flat Polyurethane	Black/Gray	13	12 pair	5-11
BK402	4131	Flat Polyurethane	White/White	13	12 pair	6-11
BK403	4131	Flat Polyurethane	Black/Black	13	12 pair	5-11
BK504	3120	Foam Polyurethane	Red/Black	15	12 pair	6-12

#### COLOR-CODED WRIST BANDING SIMPLIFIES SIZING

5 6 7 8 9 10 11 12



#### SMARTFLEX BK504 Nylon Shell, High-Quality Foam Polyurethane Coating

Stylish — this is the red warrior. At 15-gauge, the BK504 is our thinnest SmartFlex glove. But thin as it is, this glove is thick on comfort and flexibility. It is designed to protect from nuisance abrasions and to provide a big-time grip.

Lightweight materials enhance flexibility and dexterity.







**BRASS  
KNUCKLE.**  
SmartFlex™



## PROTECTING YOURSELF FROM COLD STRESS

NIOSH suggests that workers who are exposed to extreme cold or work in cold environments may be at risk of cold stress. Extremely cold or wet weather can be dangerous and can cause occupational illnesses and injuries such as hypothermia, frostbite, trench foot, and chilblains. Symptoms include reduced blood flow to hands and feet; numbness, aching, tingling, or stinging; and bluish or pale, waxy skin.



### SMARTFLEX™ BK315 Polyester Shell, Latex Crinkle Coat

Stretchable polyester base with high-elasticity, crinkle-grip, breathable latex coating on palms and fingers for enhanced dexterity and abrasion resistance. BK315 remains soft in cold conditions. Polyester knit liner provides warmth without bulk.



### SMARTFLEX™ BK350 Polyester Shell, Full Foam Latex Coating With Double-Dip Latex Palm, Sandy Grip

Keep liquids out and comfort in with BK350. Durable latex covers full front and back of the hand, while double-dip latex foam on palm enhances grip and resistance to abrasions and tears. High elasticity, excellent wet and dry grip. Polyester lining for warmth, comfort and flexibility.



### SMARTFLEX™ BK360 Black Nylon/Acrylic Shell, Soft Foam Latex Coating

BK360 is the cold-workers' companion: soft and comfortable, fully insulated for long wear. 13-gauge nylon knit base, 7-gauge napped acrylic liner and full latex foam on palm and fingers. Sponge-like surface for great grip and slip resistance with roomy, layered protection from the cold.

Part #	EN 388	Coating	Shell/Coat Color	Gauge	Pack Sz	Sizes
BK315	3120	Polyester Shell, Latex Crinkle	Black/Black	13	12 pair	7-11
BK350	2131	Polyester Shell, Latex	Blue/Dark Blue	15	12 pair	8-11
BK360	2241	Black Nylon Acrylic Shell, Foam Latex	Black/Black	13	12 pair	7-11

## COLOR-CODED WRIST BANDING SIMPLIFIES SIZING





# SMARTSKIN™

## LIQUID/SOLVENT-RESISTANT GLOVES

Brass Knuckle's **SmartSkin™** gloves have a double-dipped coating of either polyvinyl chloride or nitrile. When those wet, nasty, tough jobs require barrier protection, you want a smart glove. We have the protection you need from the muck, from thick-walled, sandy-finish PVC to thinner milled, more flexible protection to retain dexterity in the mire. Put succinctly, these are the "keep that gross gunk off my hands!" gloves.

Part #	Coating	Color	Pack Sz	Length
BKPMC2BLK-14SFC	PVC	Black Sandy Finish	12 pair	14"
BKPMC2BLK-12SFC	PVC	Black Sandy Finish	12 pair	12"
BKNITR2	PVC	Aqua, Sandy Black Palm	12 pair	14"

## THE TOXIC TRUTH

Direct skin contact with toxic materials is a common source of hand injury. According to the U.S. Bureau of Labor Statistics, 70 percent of workers who have experienced any type of hand injuries were not wearing gloves, and 30 percent of those injured may have been wearing the wrong glove for the application. Wearing appropriate gloves is crucial because chemical and abrasion exposure are among the four main types of workplace hazards to hands. To be sure you select the correct hand protection for your workplace, ask your Brass Knuckle glove specialist.

## QUICK REFERENCE GUIDE FOR PVC GLOVES

**Excellent resistance to most:** Oils, acids, fats, caustics, and petroleum hydrocarbons

**Fair resistance to most:** Alcohols and glycol ethers

**Poor resistance to most:** Aldehydes, ketones, aromatic hydrocarbons, halogen compounds, heterocyclic compounds, and nitro compounds

*Please consult Brass Knuckle specialists for specific chemical resistance guidelines.*







## SMARTSKIN PVC, DOUBLE DIP BKPVC2BLK-14SFC, BKPVC2BLK-12SFC

SmartSkin offers liquid protection and abrasion resistance while maintaining the comfort and flexibility you need for liquid and light chemical-handling jobs. Brass Knuckle's SmartSkin line is available in black, and are one-size-fits-all large.

## PVC CHEMICAL CHART

BKPVC2BLK and BKPVC2RST

Chemical	BTT	Rating
Acetaldehyde	0	NR
Acetic Acid (Conc.)	2	F
Acetone	0	NR
Ammonium Hydroxide (Conc.)	6	E
Amyl Acetate	1	F
Aniline	3	NR
Benzyl Alcohol (benzene)	6	E
Bleach (Sodium Hypochlorite)	6	E
Boric Acid		E
Butyl Acetate	1	F
Carbon Tetrachloride	2	F
Chloroacetone		NR
Chromic Acid 50%	6	G
Citric Acid 10%	6	E
Creosote		E
Cyclohexane	2	NR
Diesel Fuel	6	NR
Diethanolamine	6	E
Diethyl Ether	0	F
Dioctyl Phthalate (DOP)	6	NR
Ethyl Acetate	0	NR
Ethyl Alcohol (Ethanol)	2	F
Ethylene Glycol (Antifreeze)	6	E
Formaldehyde 37% (Formalin)	6	E
Gasoline (Octane)	2	F
Hexene (Butyl Ethylene)	6	F
Hydraulic Fluid		G
Hydrochloric Acid 30%	6	G
Hydrofluoric Acid 30%	6	G
Hydrogen Peroxide	6	NR
Kerosene	6	F
Methyl Alcohol (Methanol)	1	G
Methyl Ethyl Ketone (MEK)	0	NR
Methyl Formate		F
Mineral Oils		F
Naphtha	2	F
N-Heptane	3	F
Nitric Acid 10%	6	F
Nitrobenzene	2	NR
Oleic Acid	6	F
Perchloroethylene		NR
Phosphoric Acid		E
Potassium Hydroxide 50% (KOH)	6	E
Propylene Dichloride		NR
Silicates		E
Sodium Hydroxide 50% (NaOH)	6	F
Sodium Hypochlorite	6	E
Stearic Acid		G
Sulfuric Acid (47%)	6	G
Tetrahydrofuran (THF)	5	NR
Toluene (Toluol)	1	F
Trichloroethylene	1	NR
Trinitrobenzene		F
Turpentine	1	G
Weed Killer		E
Wood Preservative		F

### Breakthrough Time (BTT)

6	>480 minutes
5	241- 480 minutes
4	121- 240 minutes
3	61- 120 minutes
2	31- 60 minutes
1	11- 30 minutes
0	1- 10 minutes

### Rating

NR	Not Recommended
P	Poor
F	Fair
G	Good
E	Excellent



## NEW TO NITRILE?

Why choose nitrile? As always, intended use informs the best type of glove for the activity. Our nitrile gloves are incredibly strong and flexible, with outstanding tactile sensitivity for tool handling. The sandy finish means excellent grip, whether working in dry conditions, with oils, or in the muckiest muck.

*Brass Knuckle is always available to suggest specific gloves for each job. Contact our specialists for assistance in choosing the right protection against liquids, chemicals, and more.*



## BKNITR2

### Supported NBR with Double-Dip NBR Grip, Sandy Finish

When you are "up to here" in nasty liquids, chemicals or oils but need to control your tools, choose BKNITR2. 15 mil nylon shell with full Nitrile Butadiene Rubber overcoat, with second coat of NBR to add a grippy-when-wet sandy finish. Palm coating for abrasion, tear and puncture resistance.





Your eye's protective layer is thinner than a human hair. Although this barrier is resilient and strong, it is no match for workplace hazards. Brass Knuckle® wants to help.

## ALL OF OUR LENSES PASS THE TEST

We start with molds carefully created to afford optimal protection, comfort, and fit. We manufacture using tight tolerances. We submit 12 clear and six of each color variant for complete testing to the **ANSI Z87.1+ High-Impact Test** to ensure the lenses pass and are worthy of the Brass Knuckle brand. At Brass Knuckle, we do our testing in labs that are certified by ANSI. We continually retest — randomly — to ensure that what we promise is what we sell and what we sell is what we promise.

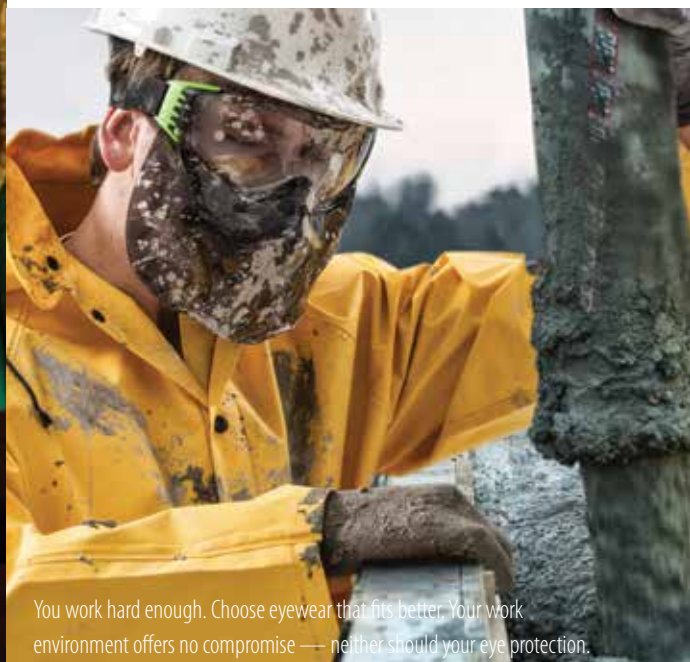
**ANSI  
Z87.1+**

**High-Velocity Impact Test (ANSI Z87.1+) Method:** For this high-velocity, high-mass ballistic test, lenses to be tested must be secured in a spectacle frame, with the entire assembly mounted vertically on a headform. The headform must be able to rotate and be raised and lowered to simulate real-life head positions. The test consists of dropping a 500-gram pointed weight from a height of about five feet onto the lens. It also must pass the test of having a 1/4" steel ball shot at the lens. The velocity varies depending on the product (glasses = 102 mph from a distance of 150'; goggles = 170 mph from a distance of 250' and 205 mph from a distance of 300').

# WE'RE TAKING A TOUGH STANCE ON EYE PROTECTION.

Brass Knuckle®. Sounds hard-hitting, right? Well, we are tough when it comes to worker safety. So we're constantly working to fill the gaps in the PPE marketplace, and some of the biggest gaps are in eye protection. We're determined to take workers out of the fog with new, proprietary anti-fog technology. And we're on a mission to combat eyewear that doesn't fit right — that pinches, slips, or gives workers a headache.

The Brass Knuckle® product development team set out to not only fill those gaps, but to also meet or exceed the U.S. standards for quality, durability, and performance. Where there wasn't an applicable U.S. standard, we created our own. And ours are tougher than anything we found elsewhere in the safety eyewear industry.



You work hard enough. Choose eyewear that fits better. Your work environment offers no compromise — neither should your eye protection.

Every day, more than 2,000 workplace eye injuries that require medical treatment occur, with more than 100 of them resulting in one or more lost days of work. Annually, that adds up to more than 700,000 injuries, 37,000 of which result in lost time. As much as \$300 million is spent each year on lost production time, medical expenses, and workers' compensation.

\*Research by the Centers for Disease Control and Prevention



# THE COMPLIANCE TRIFECTA: COMFORT, FIT, PROTECTION

## THE BEST COMFORT, FIT, AND PROTECTION



PivotEase

### BRASS KNUCKLE® COMFORT AND FIT FEATURES

#### PivotEase™ Nosepiece

No more “slip and slide” eyewear. Brass Knuckle’s unique PivotEase™ nosepiece offers a secure, non-slip fit on the nose bridge. Just turn it to the “narrow” position and then slide the eyewear on. The nosepiece adjusts automatically and “locks” into the perfect, no-slip positioning. Boom!

*Find PivotEase™ in our Flex, Fix, Adjustable, Ladies, and Dust Goggle lines.*



TempleTouch

#### TempleTouch™ Technology

Brass Knuckle’s proprietary TempleTouch™ technology features raised rubber nibs molded into the temple tips to provide a gentle but firm grip at the sides of the head, behind the ears. This manner of thoughtful design makes Brass Knuckle eye protection products stand out in the crowd.

*Find TempleTouch™ in our Ladies, Flex, Fix, Adjustable, and Dust Goggle lines.*



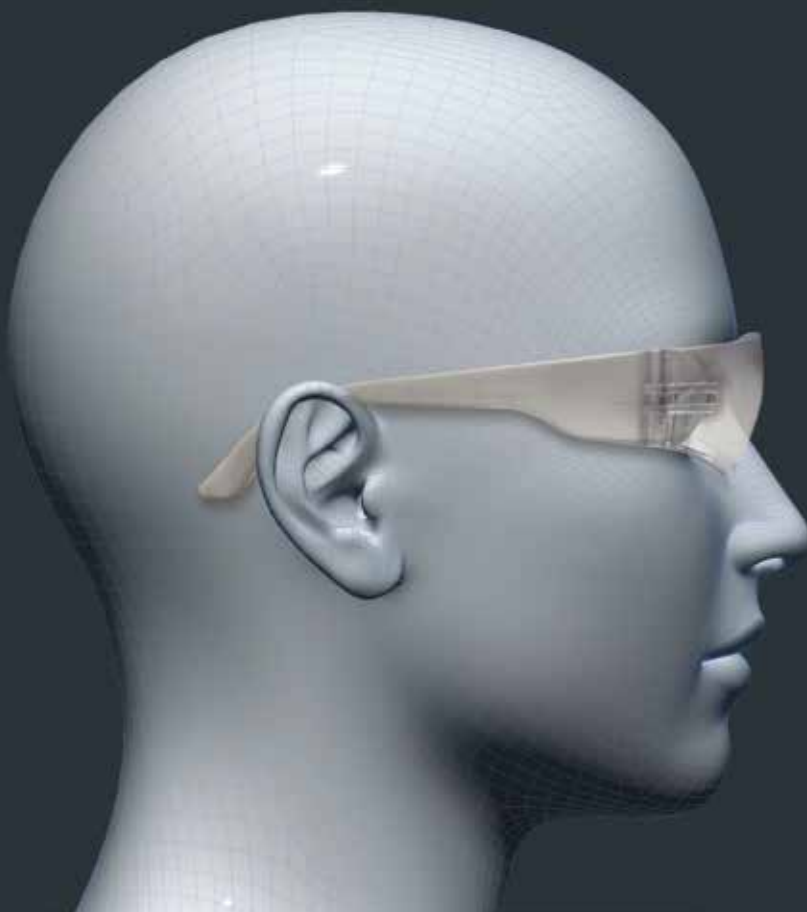
Adjustable Temple

#### Adjustable Temples

Fit into safety eyewear with temples that ratchet up and down to fit your facial and ear contours, with adjustable lengths to settle behind your ears comfortably. Make safety eyewear that is uniquely yours, without compromising protection or optics.

*Find adjustable temples in our Ladies, Corrective, Adjustable Temple, and Dust Goggle lines.*

However, if the picture mark says ANSI Z87.1+, that means it’s been tested and rated for high impact by a much more stringent set of tests than the basic Z87.1 standard. **All Brass Knuckle® safety lenses meet the ANSI Z87.1+ standard.**

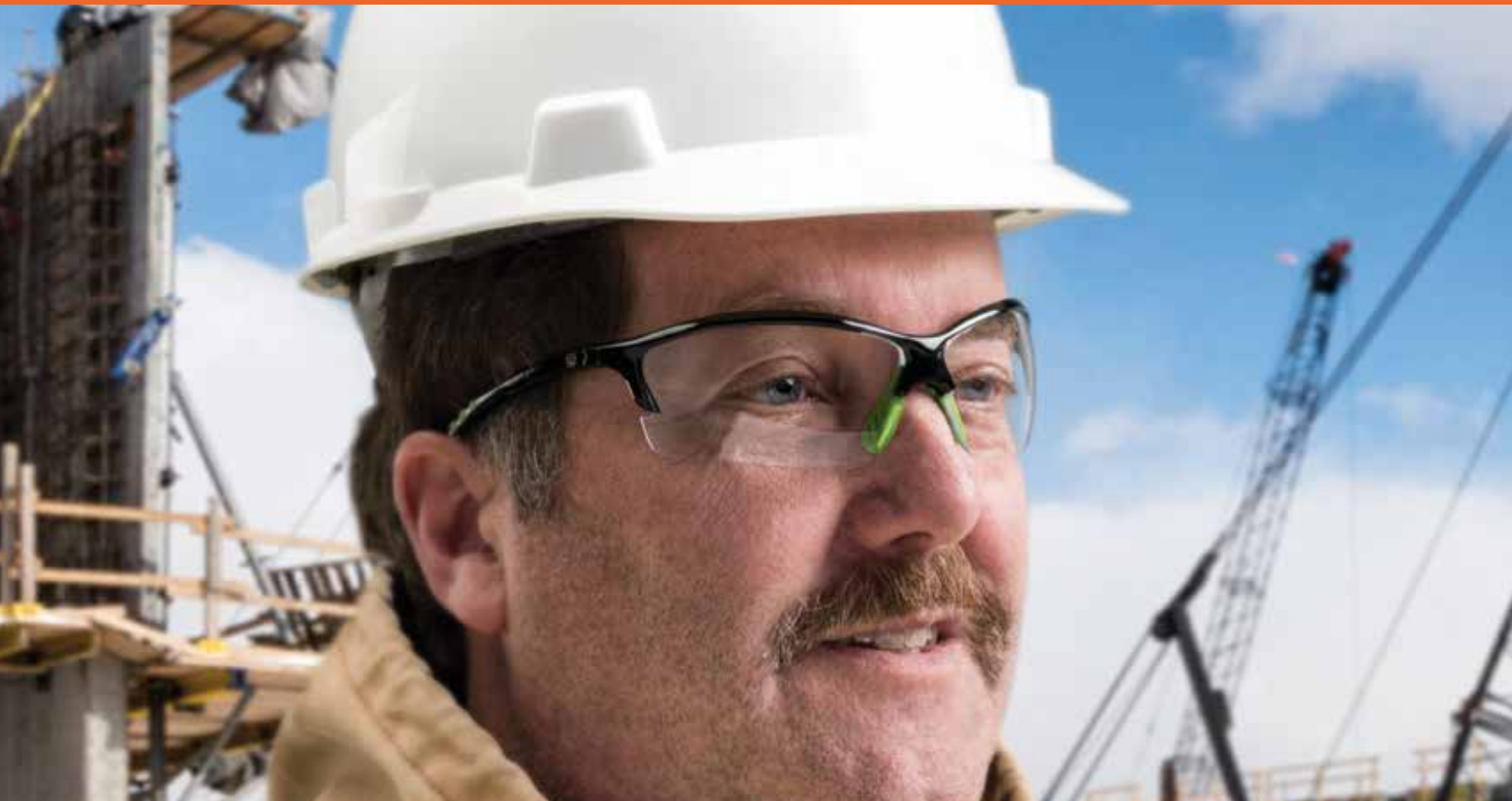


Safety lenses belong to one of two classes:  
**BASIC IMPACT** or **HIGH IMPACT**.

In order to earn the right to claim impact protection, the lenses must be tested.



We independently test and continually re-verify our lenses to ANSI Z87.1+ — the High-Impact test — because proving quality is more important than promising quality.



## BK-ANTI-FOG+ and BK-ANTI-FOG

Our anti-fog lens coating uses a groundbreaking technology that delivers better and longer-lasting fog-free protection than that of competitive anti-fog coated products. Our BK-Anti-FOG and BK-Anti-FOG+ coatings provide extreme anti-fog performance and improves both worker safety and productivity. The toughest anti-fog standard in the world is the EN 166/168 standard. We didn't set out to meet it, we crushed it.



### Get a grip.

Gripper nibs or pads made of TPR on temple ends grip gently behind the ears to prevent frames from slipping. TPR nosepieces help prevent the dreaded "nose slide maneuver."



### RAIDER STANDARD FIT BKFIX-3060NP

Slim and sporty, **Raider** is designed to mimic popular sunglass styles coveted by cyclists, baseball players, and volleyball and other outdoor sports enthusiasts. This fashionably lean and light, face-hugging eyewear doubles down on workplace protection, offering ANSI-rated impact protection and our BK-Anti-FOG+ anti-fog protection. A glossy black rim fronts an ultra-contemporary, co-extruded black and red temple with TempleTouch™ technology for a comfortable, gentle-grip fit.

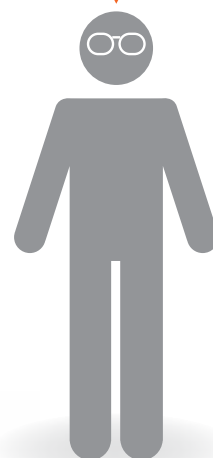
Part Number	Lens Color	Frame Color	Accent Color
BKFIX-3060NP	Clear	Black	Red





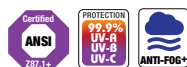
## COME OUT OF THE FOG

Lenses fog in almost every application: going from cool to warm air or from outdoor to indoor environments; in high humidity; and during strenuous work causing perspiration. Even just someone's warm breath in a cool room or the heat rising from a motor can cause lenses to fog. Our BK-Anti-FOG anti-fog protection lasts 15 times longer than European EN 166/168 (the most stringent fog standard in the world) and BK-Anti-FOG+ anti-fog properties last 45 times longer!



## Butterfly effect?

Brass Knuckle's Snap and Spectrum series offer the unique PivotEase™ nosepiece, which provides a secure, non-slip fit on the nose bridge.



### SNAP STANDARD FIT BKFIX-3100NP

Feature for feature, ultra-light **Snap** stands up to the rest of the best as the freshest thing in protective eyewear. Outfitted with our highest-rated anti-fog protection, BK-Anti-FOG+, this eyewear still gives you crisp vision in even the wettest, most humid conditions. With a high-fashion vibe and classic sport form, the glossy black temples and partially rimless design are accented by a vibrant bright green on the temples. A soft TPR nosepiece with our unique PivotEase™ technology locks Snap into the perfect, no-slip position. Finally, we added Brass Knuckle's TempleTouch™ feature — raised rubber nibs molded into the interior temple tip — to provide a gentle side grip.

Part Number	Lens Color	Frame Color	Accent Color
BKFIX-3100NP	Clear	Black	Green



### SPECTRUM STANDARD FIT BKFLEX-4040N

Spectrum eye protection pops with color. Each lens color in the family sports a unique, corresponding temple color. That's right. We matched the temple colors to the lens, knowing that when workers feel in-style they tend to keep their protection on. This powerful ANSI Z87.1+ protection weighs less than one ounce and the rimless lenses are manufactured with our BK-Anti-FOG anti-fog protection. \* Bowed, super-flex temples touch the wearer only behind the ears, eliminating all pressure points while delivering the optimal fit. The ratcheting flexible temples and second-generation PivotEase™ nose piece offers a true face-hugging design that inspires compliance.

Part Number	Lens Color	Frame Color	Accent Color
BKFLEX-4040N	Clear	Orange	Black
BKFLEX-4040SN	Smoke	Red	Black
BKFLEX-4040YN	Amber	Lime Green	Black
BKFLEX-4040IO*	In/Out Mirror	Purple	Black
BKFLEX-4040M*	Blue Mirror	Blue	Black

\*Note: Indoor/Outdoor and Mirror do not have BK-Anti-FOG technology



## STANDARD ANTI-FOG

We are proud to offer protective eyewear with our Standard Anti-Fog protection. Standard anti-fog is exactly that; it is measured to and meets the very stringent EN 166/168 standard. It is our own proprietary formula, but not related to the BK-Anti-Fog formula. We recommend standard anti-fog products for most common protective eyewear applications requiring no or limited anti-fog protection.



## Anti-Scratch Commitment

In the name of safety, fewer distractions to your vision is a huge plus. I think we can agree on that. Scratches distract our vision and become flash points for glare, another huge hazard when we're in the line of duty. Although there is no such thing as totally scratch-proof, having a proprietary anti-scratch coating on all of our Brass Knuckle lenses was the very first thing we did to ensure our line stood above the competition.



### LUNA STANDARD FIT BKFIX-3001

Luna is a simple, classic, ANSI-rated protective eyewear design — appealing to both men and women for anything from heavy construction to office and warehouse work. Weighing less than an ounce, Luna does it all with long-wearing comfort. A great value, Luna is low-cost protective eyewear designed to be sleek and compact. Wraparound one-piece lens styling hugs the face while helping to improve optical quality and impact protection. All this plus a choice of two lens shades: clear or smoke. Luna also features our standard anti-fog protection.

Part Number	Lens Color	Frame Color	Accent Color
BKFIX-3001	Clear	Black	NA
BKFIX-3001A	Clear	Clear	NA
BKFIX-3001AS	Smoke	Black	NA



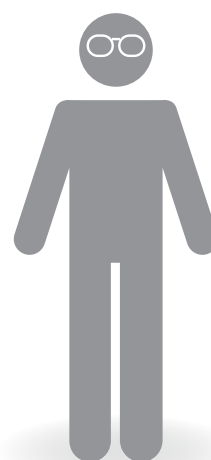


## TOO TIGHT = NOT RIGHT

Did you know that when your safety glasses slide down your nose, it's not because they're too loose or because you're perspiring too much? It might be because the frame is actually too narrow and tight for your head. When the frame is too tight, the temples can ride upwards on the sides of the head. Then, without the ears as "anchors," the glasses slide down the nose.



The SpringFlex™ temple design can't be bent out of shape! Bend it at a right angle and watch it spring back to its naturally curved, molded-to-fit-the-face form.



### BENGAL FLEXIBLE FIT BKFLEX-4020

Sleekly stylish, the orange and black **Bengal** wraps around the face for max protection with a 10-base curve lens in clear or smoke (BKFLEX-4020S). The semi-rimless design features a narrow frame and bridge for smaller faces, and the soft TPR temples provide just enough flex to make them perfect for both men and women. In addition, Brass Knuckle's unique PivotEase™ nosepiece offers a non-slip fit. Reminiscent of popular sports and shooting sunglasses, Bengal's European style and light weight make them ideal for workers and visitors alike. Bengal offers our standard anti-fog protection.



Part Number	Lens Color	Frame Color	Accent Color
BKFLEX-4020	Clear	Black	Orange
BKFLEX-4020S	Smoke	Black	Orange



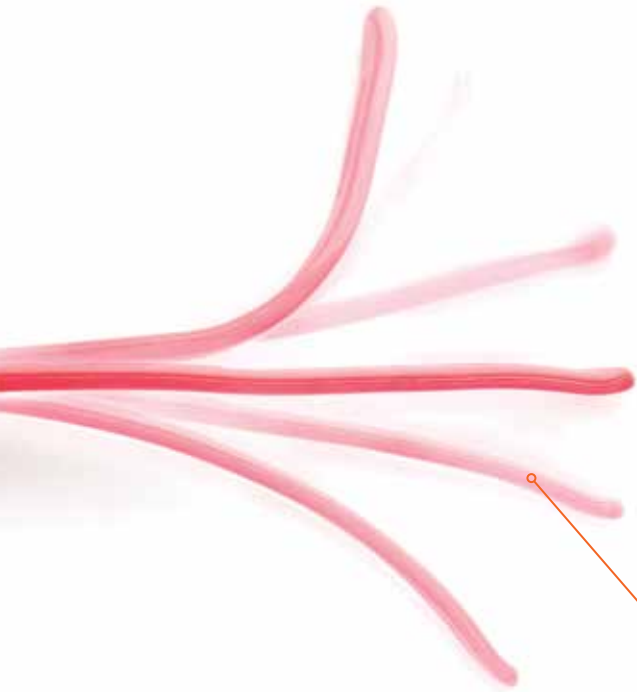
### SPRINGER FLEXIBLE FIT BKFLEX-4010

Featuring a one-of-a-kind SpringFlex™ temple, **Springer** delivers our face-hugging fit in an unprecedented way. The temples adjust to wider facial profiles by gently bending at a built-in pivot point created by a molded spring in the temple itself. Why does this matter? When rigid spectacles are pulled wider than their natural structure to accommodate for wider faces, a bowing or straightening of the lens may take the eyewear out of compliance. The soft thermoplastic rubber TPR temple tips and nosepiece provide all-day comfort. Springer offers our standard anti-fog protection. Also available with smoke lens (BKFLEX-4010S).

Part Number	Lens Color	Frame Color	Accent Color
BKFLEX-4010	Clear	Black	Blue
BKFLEX-4010S	Smoke	Black	Blue



# STANDARD ANTI-FOG



Flexible fit eyewear becomes narrow or wide without affecting the optics AND without taking the lens out of ANSI certification.



## REDLINE FLEXIBLE FIT BKFLEX-4001

Choose your ride: **RedLine** or **BlackLine**. The RedLine (BKFLEX-4001) has a clear lens with red tread bendable TPR temples. BlackLine (BKFLEX-4001S) is a smoke lens in a black glossy frame. Both deliver on the Brass Knuckle Flex promise: a face-hugging fit — one you won't remember to take off at the end of the day. Powerful styling powers up the one-piece, lightweight, rimless design. This fully dielectric (metal-free) eye protection features naturally curved, flexible temples devoid of metal hinges and screws — excellent for linemen or others exposed to live electric current. RedLine and BlackLine feature our standard anti-fog protection.

Part Number	Lens Color	Frame Color	Accent Color
BKFLEX-4001	Clear	Clear	Red
BKFLEX-4001S	Smoke	Black	Black





## It can't happen to me!

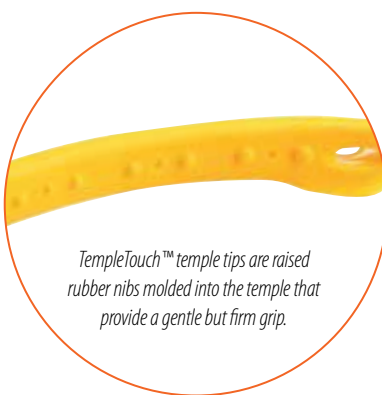
For those who think removing safety eyewear for even a few seconds is okay, here's what might be waiting: metal slivers, wood chips, dust, and cement chips ejected by tools, blown by wind, or falling from above you. Nails, staples, or slivers of wood or metal can penetrate the eyeball and result in a permanent loss of vision. Large objects might hit your eye or face, or you might run into an object causing blunt force trauma to the eyeball or eye socket. Splashes of industrial chemicals or cleaning products can cause chemical burns to your eyes. Exposure to extreme heat can cause thermal burns.

*(Source: National Institute for Occupational Safety and Health Education [NIOSH] Information Division, 2016)*



Nearly three out of five workers are injured because they were not wearing eye protection at the time of the accident, according to the U.S. Bureau of Labor Statistics. Two of the most common causes of vision loss in construction workers are 1.) metal slivers released when hammering on metal and 2.) nails rebounding during normal carpentry.

*(Source: Centers for Disease Control, 2014)*



*TempleTouch™ temple tips are raised rubber nibs molded into the temple that provide a gentle but firm grip.*

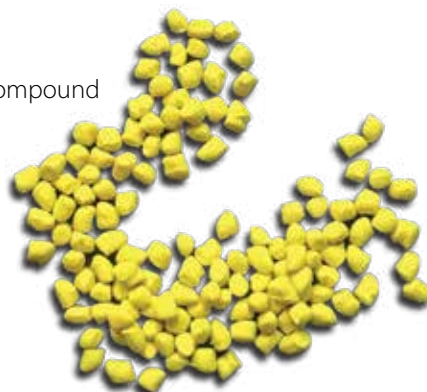
### SUNBURST FLEXIBLE FIT BKFLEX-3100

Yellow that's far from mellow. Choose either **SunBurst** (clear lens and a one-color bright yellow temple) or **SunSpot** (smoke lens with a two-color, co-extruded molded temple in yellow and black) for a sporty, ultra-comfortable spectacle weighing less than an ounce. TPR temples feature Brass Knuckle's TempleTouch™ technology, featuring raised rubber nibs molded into the temple tip to provide a gentle but firm grip.

Part Number	Lens Color	Frame Color	Accent Color
BKFLEX-3100	Clear	Yellow	NA
BKFLEX-3100S	Smoke	Yellow	Black

## What is TPR?

Thermoplastic rubber (TPR) is a compound that combines the moldability of plastic with the flexibility of rubber — so it keeps its shape but is bendable. An ideal material for eyeglass temples, soft and flexible TPR helps eyewear frames easily conform to any size head for superior comfort.





## TRADITION ADJUSTABLE TEMPLE BKADJ-5050

Sometimes you just need to go with a classic. **Tradition** combines a timeless protective eyewear look with today's best ANSI-rated performance and our standard anti-fog protection. Economically priced, Tradition has a light nylon frame in classic black. Lightweight, adjustable, adaptable eyewear at an affordable price — what's more classic than that? Also in smoke lens (BKADJ-5050S).

Part Number	Lens Color	Frame	Accent
BKADJ-5050	Clear	Black	NA
BKADJ-5050S	Smoke	Black	NA



## LICORICE ADJUSTABLE TEMPLE BKADJ-5001

**Licorice** is one sweet spectacle. Its ultra-light, thin, matte black frame features adjustable-length temples and traditional temple tips. The proprietary Brass Knuckle PivotEase™ nosepiece provides a secure, non-slip fit on the bridge — completed by a cushiony TPR nose pad. Ultra-comfortable Licorice slides on with a bounty of comfort and safety features that help ensure compliance and long-wearing protection — and that includes our standard anti-fog protection. Also in smoke lens (BKADJ-5001S).

Part Number	Lens Color	Frame Color	Accent Color
BKADJ-5001	Clear	Black	NA
BKADJ-5001S	Smoke	Black	NA





## What is base curve, and why does it matter?

When you read about our safety glasses having a specific “base curve,” what are we talking about?

“Base curve” is a number that describes the amount of curvature of the front surface of a lens. Base curves range from 0 to 10 or more. The lower the base curve number, the flatter the lens, and the higher the number, the more the lens is curved.

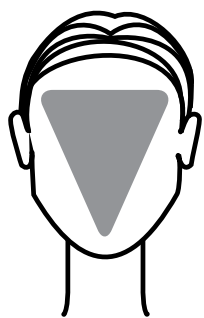
Getting wraparound lenses right takes a certain amount of manufacturing skill. To maintain good optics and prevent distortion caused by a higher curvature, the thickness of the lens material has to vary along the curve (where light passes through).

A basic safety lens has a base curve of 4, which is fairly flat. Glasses with a higher base curve—and thus more “wrap”—look sportier and more stylish, which can help improve compliance.

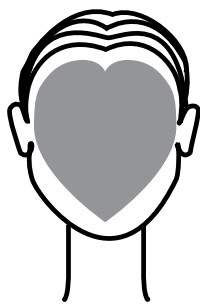


## Head Size Matters.

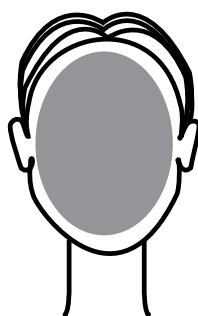
Wide face? Narrow face? Don't force your safety glasses on — if you stretch the frame beyond its limit, it can change the curve of the lens. This can distort the optics or, worse, create weak spots that would fail any ANSI certification test. Flexible Fit eyewear becomes narrow or wide without affecting the optics AND without taking the lens out of ANSI certification.



Triangle



Heart



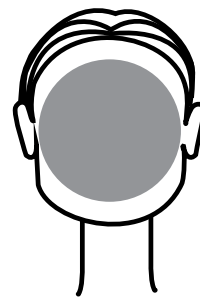
Oval



Oblong



Rectangle



Round



BK-ANTI-FOG+ & BK-ANTI-FOG



TRANSFORMER BKDST-1040NP

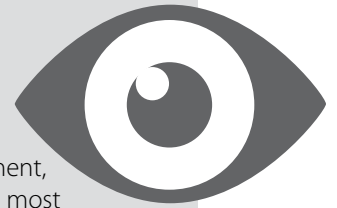
Meet **Transformer**. Featuring an interchangeable design, it quickly transitions from standard temples to an elastic head strap; integrated side protection works with both. Our BK-Anti-FOG+ anti-fog protection keeps your vision clear. The Transformer's rugged good looks, with a nylon and TPR frame, and black/dark gray temples, says Brass Knuckle through and through.

Part Number	Anti-Fog	Lens Color	Frame Color	Accent Color
BKDST-1040NP	BK-Anti-FOG+	Clear	Black	Gray
BKDST-1040SNP	BK-Anti-FOG+	Smoke	Black	Gray





## Be particular about particulates.



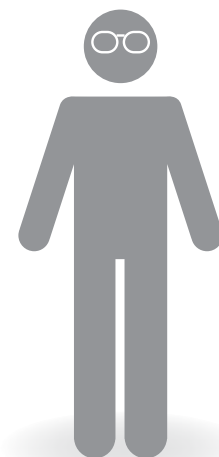
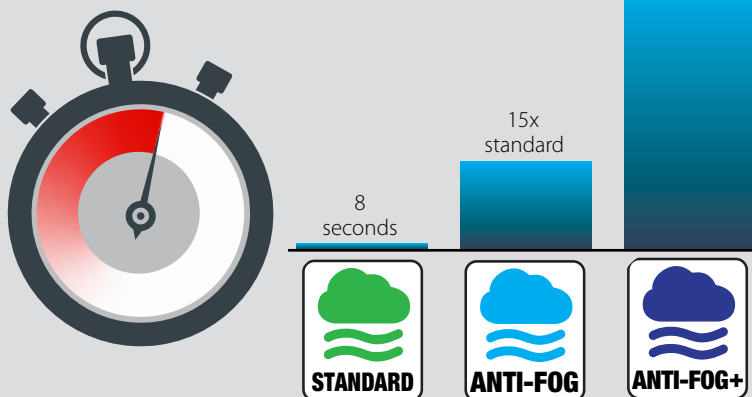
A simple scratch on the eye from sawdust, cement, or drywall can cause recurring pain. Two of the most common causes of vision loss in construction workers are metal slivers released during hammering on metal and nails rebounding during normal carpentry. (Source: *The Center for Construction Research and Training*, 2014)

## EYE INJURIES DON'T HAVE TO HAPPEN.

While vision loss is among the top 10 disabilities for American adults age 18 years and older, 90 percent of eye injuries are preventable. (Source: The Vision Council in conjunction with the American Society of Safety Engineers [ASSE])

## It's about time. Literally.

Anti-fog coatings were created to keep the lens clear from the moment when fog would normally form to the moment when the lens would adjust to the temperature change. But not all anti-fog coatings are created equal. Depending on the temperature differential, it may require seconds or even minutes of fog protection before a lens adapts to the temperature of the new environment. Extreme conditions of heat and humidity can lengthen the time to unfog. This means wearers need more robust fog protection — or else they'll be "working blind" and removing their eyewear. A compliance killer!



DUST GOGGLES BK-ANTI-FOG+ & BK-ANTI-FOG



BK-ANTI-FOG+ & BK-ANTI-FOG

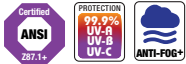
Dust goggles are the choice for keeping fine particulates from raining into protective eyewear. Soft but secure gaskets, made of foam or rubber, create a comfortable seal. But these are so much more than anti-fog dust grabbers. Our chameleon-like features convert glasses to goggles, temples to straps. We're offering you the application-specific tools that your toolbox deserves.



Optional strap that locks into the temple



Frame channel helps to direct water away



CRUSHER BKDST-1020NP

Our **Crusher** design is popular for its modern styling, but make no mistake; this is more than a looker. The specialized, contoured rubber gasket seals the glasses snugly up against the wearer's face, doing more than stopping dust from entering the optical cavity; rather, it also channels light water away from eyes. This makes a huge difference, and only our Crusher features this liquid splash protection. Its super-flex TPR temples hug any size face, a fully customizable PivotEase™ nosepiece prevents slipping, and TempleTouch™ technology grips comfortably with molded-in nibs behind the ears. Removable gasket allows for quick conversion into a standard protective eyewear format. It even has Brass Knuckle's BK-Anti-FOG+ anti-fog protection. Every pair comes with an optional strap to further secure the fit.

Part Number	Anti-Fog	Lens Color	Frame Color	Accent Color
BKDST-1020NP	BK-Anti-FOG+	Clear	Gray/Orange	Orange
BKDST-1020SNP	BK-Anti-FOG+	Smoke	Gray/Orange	Orange



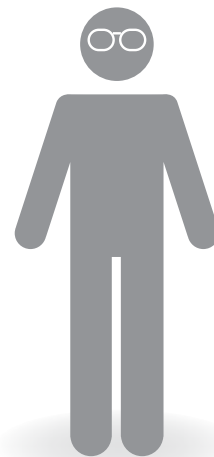


## Protect Your Eyes From Toxins

Whether after natural disasters like a tornado or hurricane or man-made ones like crude oil spills, environmental cleanup presents a high risk of eye infection and eye injury. Properly fitting safety glasses and protective goggles can limit your eyes' exposure to airborne toxins and contaminants, including gasoline, oil, and household and industrial chemicals. (Source: All About Vision, 2016)

### CAN'T SEE? CAN'T WORK

Lost productivity is a significant consequence of eye injuries at work. According to NIOSH, every single day approximately 2,000 U.S. workers suffer job-related eye injuries that require medical treatment. As many as 90 percent of the injuries could be prevented, or made less severe, by wearing the right eye protection.



### GRASSHOPPER BKDST-1010N

**Grasshopper** is a jaw dropper as far as comfort — this grass-green dust goggle/spectacle combo has been described by our Building the Brass™ Testers as a “forget-you-have-it-on comfort.” A soft EVA foam dust filter with built-in air channels fills the gap between the glasses and the face, keeping dust out. Super-flex temples hug the face in a European-inspired, sporty design. Grasshopper transforms easily, shedding its dust filter gasket to allow for quick conversion into standard protective eyewear with clear, smoke, or mirror lenses. It's also fully dielectric (no metal anywhere) for an extra measure of safety. And Brass Knuckle's proprietary BK-Anti-FOG anti-fog protection meets or exceeds the most stringent anti-fog standard.

Part Number	Anti-Fog	Lens Color	Frame Color	Accent Color
BKDST-1010N	BK-Anti-FOG	Clear	Black	Green
BKDST-1010SN	BK-Anti-FOG	Smoke	Black	Green
BKDST-1010PN	BK-Anti-FOG	Clear	Black	Pink
BKDST-1010SPN	BK-Anti-FOG	Smoke	Black	Pink



*Bendable, super-flex TPR temples in bright green for visibility and style. Why settle for a pair of dust goggles when you can have spectacles, too?*



# BK-ANTI-FOG

These are not your father’s protective goggles. If it says Brass Knuckle, it is designed to stop you in your tracks. We’ve never been more proud than when we hear how our anti-fog, sleek-fitting, compliance-inspiring comfort has finally motivated that one tough dude who would never wear his eye protection to walk right at his hazard...protected.

## When goggles are a GO.

Always check the appropriateness and fit of safety eyewear. Research shows that more than 90 percent of eye injuries that happened to workers who were wearing eye protection were the result of flying particles or spray that entered around or under the protective eyewear. Faceshields or closed goggles could have prevented such injuries or made them less severe.



### VADER BKGOG-2010N (vented)

With our BK-Anti-FOG anti-fog coating, a durable anti-scratch treatment, and D3 rated for droplet and splash protection, **Vader** is as efficient and hardworking as you are. Its built-in venting system helps reduce the potential for moisture buildup, helping to maintain clear vision. The only material that touches your face is an ultra-soft conditioned rubber that forms the splash shield. Provides 99.9% UV protection and it fits over most prescription eyeglasses. Meets demanding industry test requirements (ANSI Z87.1+, EN166K, EN166N, EN166UV). Meets or exceeds AS/NZS 1337.1:2010 for eye and face protection. The Vader Goggle can just as easily be seen tearing up the slopes or rocking a construction site.

Part Number	Anti-Fog	Venting	Rating	Frame Color	Accent Color
BKGOG-2010N	BK-Anti-FOG	Vented	D3	Clear	Green





*You have never worn a goggle this loaded with a combination of crystal-clear optics and outstanding comfort features.*



*Look, if it's this soft, it's gotta be comfortable!*



## VADER COMBO BKGOG-2020N

This is our **Vader** splash goggle with an integral face shield. The **Vader Combo** is ideal for construction, water departments, grinding, you name it. If the application calls for a face shield, this is the one: the coolest, best-fitting, most fog-free product on the market. Since the shield is attached to the ANSI-rated splash goggle, the shield goes where your head goes — unlike other configurations in which the face shield attaches to the hard hat, causing the shield to bump the chin when looking down. The military style, aqua-green splash goggle (rated D3 for droplet and splash protection.) offers 180° peripheral vision face coverage. Reverse venting for added comfort; soft rubber seals around the nose, eyes, and brow; Vader Combo meets the industry's most stringent anti-fog standard.

Part Number	Anti-Fog	Venting	Rating	Frame Color	Accent Color
BKGOG-2020N	BK-Anti-FOG	Vented	D3	Clear	Green
BKGOG-2020SN	BK-Anti-FOG	Vented	D3	Clear	Green



## VADER BKGOG-2030N (unvented)

This is the same hard working and highly-stylized **Vader**, but in an unvented version for more extreme splash protection and put-your-mind-at-ease protection from fine particulates. In fact, this military-styled goggle — big on comfort — carries a D4 rating for droplet, splash, and dust protection. Meets demanding industry test requirements (ANSI Z87.1+, EN166K, EN166N, EN166UV). Meets or exceeds AS/NZS 1337.1:2010 for eye and face protection.

Part Number	Anti-Fog	Venting	Rating	Frame Color	Accent Color
BKGOG-2030N	BK-Anti-FOG	Unvented	D4	Clear	Green



## BK-ANTI-FOG & STANDARD FOG

We talk about compliance all the time. We talk about workers removing their eyewear for only a moment, when suddenly something terrible happens. If we accept that, then we must accept that there is no greater threat to today's Boomers and aging Gen-Xers than taking protective eyewear off for a second to swap out for readers. Don't cheat! Choose from OTG and diopter-reinforced options.

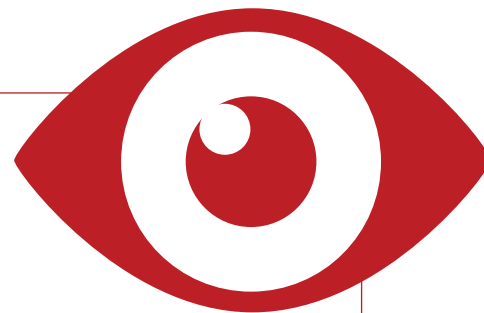


### **SMALLS BK0TG-9010**

When you need industrial eye protection over your own corrective lenses, there's no reason to go big unless you have to. Truly, in this category, if undersized fits, go for it. OTG **Smalls** are a comfortable solution. Made for use with small- to standard-sized eyewear and all bifocals, OTG Smalls deliver ample coverage with a comfortable fit. The one-piece polycarbonate design in clear or smoke has adjustable-length ratchet temples for a customized fit. Our proprietary BK-Anti-FOG anti-fog protection meets or exceeds European EN 166/168.

Part Number	Anti-Fog	Lens/Frame	Diopter
BK0TG-9010	BK-Anti-FOG	Clear/Clear	NA
BK0TG-9010S	BK-Anti-FOG	Smoke/Smoke	NA





## OTG and corrective readers: meeting an urgent need.

The number of Americans between the ages of 55 and 64 in the workplace will increase by nearly 44 percent over the next decade. These workers will continue to read gauges and valve settings and to set machinery controls and monitor production screens on the plant floor. They will calibrate, cut, and tune. And they will take their protective eyewear off and slide on their readers to make this close work easier — unless we see the problem before the accident happens.

Even the revised ANSI/SEA Z87.1-2015 standard recognizes the need for readers that offer magnification for the wearer.

Brass Knuckle® meets the need with its OTG and Corrective Readers line. Call us for more information and recommendations for your workplace.



### READ BKREAD-6010

**Read** is great-fitting, cost-effective, super-light bifocal eye protection from Brass Knuckle®, available in five diopter strengths: 1.0, 1.5, 2.0, 2.5 and 3.0. A durable polycarbonate frame provides extra side protection and all-day comfort. And of course, the clear lenses are ANSI-rated hardcoated polycarbonate with our standard anti-fog protection.

Part Number	Anti-Fog	Lens/Frame	Diopter
BKREAD-6010	Standard	Clear/Clear	1.0
BKREAD-6010S	Standard	Smoke/Clear	1.0
BKREAD-6015	Standard	Clear/Clear	1.5
BKREAD-6015S	Standard	Smoke/Clear	1.5
BKREAD-6020	Standard	Clear/Clear	2.0
BKREAD-6020S	Standard	Smoke/Clear	2.0
BKREAD-6025	Standard	Clear/Clear	2.5
BKREAD-6025S	Standard	Smoke/Clear	2.5
BKREAD-6030	Standard	Clear/Clear	3.0
BKREAD-6030S	Standard	Smoke/Clear	3.0



### BIGGIE BKOTG-9001A

Prescription safety eyewear can be costly for employers. That's why over-the-glasses protection is a great option. Your team gets the industrial eye protection the job requires while still allowing them to wear their proper corrective lenses. The large, clear one-piece polycarbonate lens with molded nose piece provides workers with a wide field of vision. And the integrated brow guard and side shields protect wearers and their own Rx glasses. OTG **Biggie** is a comfortable, full-sized solution that also doubles as an excellent visitor spectacle.

Part Number	Anti-Fog	Lens/Frame	Diopter
BKOTG-9001A	NA	Clear	NA



When work brings  
you to your knees  
— literally

#### ROOFING



#### FLOORING



#### LANDSCAPING







Brass Knuckle's focus is on increased **SAFETY** for workers and **PEACE OF MIND** for their employers.

Back fatigue and repetitive motion can lead to injury. The BKBS back support offers reinforcement that can help workers avoid back injuries and fatigue in occupations which require bending, stooping, lifting, carrying, or even holding static positions for a long period of time.

Brass Knuckle® recommends that facilities re-engineer their processes to eliminate lifting hazards. Remember, back supports are useful, but alone can't completely prevent injuries. Workers should be reminded to lift properly and to be aware of the risks of over-lifting; however, when all other precautions are taken, back supports can help control posture and promote positive lifting habits.

Carefully fitted and adjustable for girth and height, our supports feature elastic suspenders to distribute body stress and a tapered abdominal panels to better conform to body sizes.

## TAKE A KNEE. STABILITY. PROTECTION. FLEXIBILITY.

When work brings you to your knees — literally — Brass Knuckle® has you covered. Each of our three solutions provides excellent protection but with varying degrees of flexibility and comfort, allowing you to choose based on the application and desired value.

The BKKN100 is an ethylene-vinyl acetate (EVA) light-duty cushioned knee pad. A single strap with hook-and-loop closure keeps the pad in place for lightweight comfort and protection. The BKKN200 is more heavy-duty, more long-wearing protection. The hard polyurethane cap conforms to the shape of the patella, keeping it stable. An abrasion-resistant cap allows for safer pivoting, and foam padding throughout maximizes wearer comfort.

**Brass Knuckle is your assurance of very wearable protection.**

### PLUMBING





## BACK AND KNEE SUPPORT

Brass Knuckle® ergonomic protection is designed to help alleviate musculoskeletal disorders (MSDs), which affect the muscles, nerves, blood vessels, ligaments, and tendons. Risk factors at work include lifting heavy items, bending, reaching overhead, kneeling for prolonged periods of time, pushing and pulling heavy loads, and working in awkward body postures. Repetitive motion can also cause MSDs. When engineering the hazard away cannot be easily done, we provide modern, lightweight ergonomic protection products in styles designed to keep workers in compliance.



### ERGONOMIC BACK SUPPORT

The Brass Knuckle® BKBS back support offers reinforcement that can help workers avoid back injuries and fatigue in occupations that require stooping, lifting, carrying, or even holding static positions for long periods of time. Our supports feature elastic suspenders to distribute body stress and tapered abdominal panels to better conform to the body.

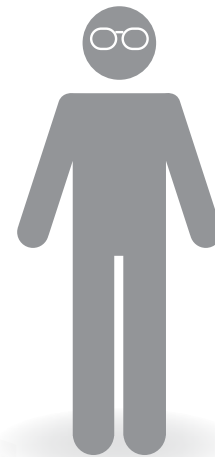
Part Number	Description	Size
BKBS-S	Back Support Belt Black 32" to 36"	Small
BKBS-M	Back Support Belt Black 36" to 40"	Medium
BKBS-L	Back Support Belt Black 40" to 44"	Large
BKBS-XL	Back Support Belt Black 44" to 48"	X-Large





## JOBS THAT INVOLVE LIFTING OFTEN STRAIN YOUR BACK

Jobs where there is constant lifting of heavy items or people can cause back pain. The pain can most commonly come from muscle strain, chronic upper back pain, damage to ligaments, chronic thoracic back pain, pulled muscles, and chronic lower back pain. Occupations that commonly run into these problems include construction workers, nurses, and warehouse workers.



### BKKN100

Brass Knuckle® knee pads have you covered, with three options of pads offering varying degrees of flexibility and comfort. The BKKN100 is an ethylene-vinyl acetate (EVA) light-duty, cushioned, and adjustable knee pad. A single strap with hook-and-loop closure keeps the pad in place for hours of lightweight comfort and protection.

- Cushioned foam knee pad in black.
- One size, with adjustable strap for proper fit.
- Lightweight cushioning for light-duty protection.

Part Number	Description	Color
BKKN100	Cushioned Foam Knee Pad	Black



### BKKN200

The BKKN200 is for heavy-duty, all-day protection. With a hard, contoured polyethylene cap, this all-black knee pad conforms to the shape of the knee cap to enhance the patella's stability and reduce risks of impact and injury. This is high-level protection for tough jobs.

- Rounded, abrasion-resistant cap allows for safer pivoting and heavy-duty work on the knees.
- Foam padding throughout to maximize wearer comfort.
- One size with an adjustable strap to keep the pad where it should be.

Part Number	Description	Color
BKKN200	Cushioned Foam, Rounded Cap Knee Pad	Black



**Brass Knuckle® Protection**

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**BRASS  
KNUCKLE®**