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# FLAME-RESISTANT APPAREL

ELECTRIC UTILITY | GENERAL INDUSTRIES—  
ARC FLASH PROTECTION | OIL & GAS



# THE BULWARK ADVANTAGE

WORLD'S LARGEST MANUFACTURER OF FLAME-RESISTANT APPAREL

INDUSTRY LEADER IN FLAME-RESISTANT TECHNICAL EXPERTISE

LEADER IN FLAME-RESISTANT INNOVATION FOR 44 YEARS

NEWLY CERTIFIED UL PRODUCTS

BULWARK HAS A RELENTLESS DRIVE TO DESIGN, DEVELOP AND DISTRIBUTE THE BEST, MOST FORWARD-THINKING FLAME-RESISTANT GARMENTS THE WORLD HAS EVER SEEN.



# iQ SERIES P.4

# EXCEL FR COMFORTOUCH P. 6,10

# COOLTOUCH2 P. 6

# EXCEL FR P. 7,10

## ICON GUIDE

THESE ICONS HELP YOU QUICKLY DETERMINE A PRODUCT'S CATEGORY PROTECTION, UL CLASSIFICATION/NFPA 2112 COMPLIANCE AND INDUSTRIAL LAUNDRY STANDARDS.



### CATEGORY 1 PROTECTION

Arc-rated FR long sleeve shirt and FR pants or FR coverall with a required minimum ATPV (Arc Thermal Protective Value) of 4 cal/cm<sup>2</sup>.



### CATEGORY 2 PROTECTION

Arc-rated FR long sleeve shirt and FR pants or FR coverall with a required minimum ATPV (Arc Thermal Protective Value) of 8 cal/cm<sup>2</sup>.



### CATEGORY 3 PROTECTION

Arc-rated FR long sleeve shirt and pants or FR coverall, and arc flash suit selected so that the system arc rating meets the required minimum and a required minimum ATPV (Arc Thermal Protective Value) of 25 cal/cm<sup>2</sup>.



### CATEGORY 4 PROTECTION

Arc-rated FR long sleeve shirt and pants or FR coverall, and arc flash suit selected so that the system arc rating meets the required minimum and a required minimum ATPV (Arc Thermal Protective Value) of 40 cal/cm<sup>2</sup>.



### NFPA® 2112 COMPLIANT

Bulwark Protective Apparel offers flame-resistant protective garments that are certified by Underwriters Laboratories to meet the requirements of NFPA 2112 Standard on Flame Resistant Garments for Protection of Industrial Personnel Against

Flash Fire, 2012 Edition. NFPA 2113 Standard on Selection, Care, Use, and Maintenance of Flame Resistant Garments for Protection of Industrial Personnel Against Flash Fire, 2012 Edition, requires that garments cover the upper and lower body and

flammable underlayers as completely as possible. Bulwark garments meet this requirement either as a single garment such as a coverall or when worn with another certified garment such as a shirt or pants to provide both upper and lower body coverage.



### INDUSTRIAL LAUNDRY

Stands up to 50 industrial launderer washes.



# iQ SERIES

iQ Series™ shirts are lighter, cooler, softer, more breathable and keep you and your crew drier—to help you perform at your peak all day. Thanks to a revolutionary new FR science and a first-of-its-kind FR performance wear fabric (WestexG2™ fabrics by Milliken®).

iQ uses an entirely new chemistry, Dual Elemental Protection, that can be applied to performance fibers (polyester) for the first time ever. Without forfeiting protection. The result is a garment that redefines what FR looks, breathes, feels, moves and performs like.



## iQ LONG SLEEVE POLO QT12

**FABRIC** Flame-resistant 5.3-ounce, 69/25/6 cotton/polyester/polyoxadiazole

**PROTECTION** Category 2 | Arc Rating ATPV 8.2 calories/cm<sup>2</sup>

**FEATURES** Contrast thread color | Self-fabric collar | Raglan sleeves | Zipper-front placket | Concealed left chest pencil stall pocket | Concealed left sleeve pencil stall pocket | Full side seam gussets | iQ Series™ seam tag | Concealed rib knit cuffs | iQ Series™ reseller hang tag

**STANDARDS** This flame-resistant garment meets the requirements of NFPA 2112, Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire 2012 Edition.

ADULT SIZES M-4XL



CHARCOAL/GREY

BLACK/STEEL

DARK BLUE/STEEL

**iQ LONG SLEEVE HENLEY QT20** 

**FABRIC** Flame-resistant 5.3-ounce, 69/25/6 cotton/polyester/polyoxadiazole

**PROTECTION** Category 2 | Arc Rating ATPV 8.2 calories/cm<sup>2</sup>

**FEATURES** Contrast thread color | Rib knit henley collar | Raglan sleeves | Four-button placket | Concealed left chest pencil stall pocket | Concealed left sleeve pencil stall pocket | Full side seam gussets | iQ Series™ seam tag | Concealed rib knit cuffs | iQ Series™ reseller hang tag

**STANDARDS** This flame-resistant garment meets the requirements of NFPA 2112, Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire 2012 Edition.

ADULT SIZES M-4XL



CHARCOAL/GREY

BLACK/STEEL

DARK BLUE/STEEL

RED/BLACK



**iQ LONG SLEEVE TEE QT32** 

**FABRIC** Flame-resistant 5.3-ounce, 69/25/6 cotton/polyester/polyoxadiazole

**PROTECTION** Category 2 | Arc Rating ATPV 8.2 calories/cm<sup>2</sup>

**FEATURES** Contrast thread color | Rib knit crewneck | Raglan sleeves | Concealed left chest pencil stall pocket | Full side seam gussets | iQ Series™ seam tag | Concealed rib knit cuffs | iQ Series™ reseller hang tag

**STANDARDS** This flame-resistant garment meets the requirements of NFPA 2112, Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire 2012 Edition.

ADULT SIZES M-4XL



CHARCOAL/GREY

BLACK/STEEL

DARK BLUE/STEEL



# EXCEL FR COMFORTOUCH

COTTON'S COMFORT,  
NYLON'S DURABILITY.

This practical 88/12 cotton/nylon blend provides long-lasting protection for nearly all work environments. Applications include ferrous metals, electrical utilities and the chemical, oil, gas and petrochemical industries. Every EXCEL FR® ComforTouch® garment is engineered for life of the garment flame resistance.



## EXCEL FR® COMFORTOUCH® DRESS UNIFORM SHIRT SLU2



**FABRIC** Flame-resistant EXCEL FR® ComforTouch® 7-ounce, 88/12 cotton/nylon

**PROTECTION** Category 2 | Arc Rating ATPV 8.6 calories/cm<sup>2</sup>

**FEATURES** Meets IL50 industrial laundry standards | Banded, topstitched, button-down collar | Placket front with button closure | Tailored sleeve plackets | Topstitched cuffs with button closures

**STANDARDS** This flame-resistant garment meets the requirements of NFPA 2112, Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire 2012 Edition; EN ISO 11612:2008, Protective Clothing Against Heat and Flame; EN 340:2003, Protective Clothing—General Requirements; and IEC 61482-2:2009, Live Working—Protective Clothing Against the Thermal Hazards of an Electric Arc.

ADULT SIZES S-3XL



# COOLTOUCH<sup>2</sup>

DURABLE. WICKABLE  
BLENDED INHERENT.

CoolTouch<sup>2</sup> garments provide flame-resistant protection in a lightweight blended fabric. The result—unbeatable softness coupled with lasting durability and protection. Bulwark® Protective Apparel markets TenGate TECASAFE® PLUS fabric under the brand name “CoolTouch<sup>2</sup>”.

## COOLTOUCH<sup>2</sup> DRESS UNIFORM SHIRT SMU2



**FABRIC** Flame-resistant CoolTouch<sup>2</sup> 7-ounce, 48/37/15 modacrylic/lyocell/aramid (Khaki and Light Blue); 45/35/20 modacrylic/lyocell/aramid (Navy)

**PROTECTION** Category 2 | Arc Rating ATPV 9.0 calories/cm<sup>2</sup> (Khaki and Light Blue), Arc Rating ATPV 10.1 calories/cm<sup>2</sup> (Navy)

**FEATURES** Meets IL50 industrial laundry standards | Banded, topstitched, button-down collar | Placket front with button closure | Tailored sleeve plackets | Topstitched cuffs with button closures | Full side seam gussets

**STANDARDS** This flame-resistant garment meets the requirements of NFPA 2112, Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire 2012 Edition; EN ISO 11612:2008, Protective Clothing Against Heat and Flame; EN 340:2003, Protective Clothing—General Requirements; and IEC 61482-2:2009, Live Working—Protective Clothing Against the Thermal Hazards of an Electric Arc.

ADULT SIZES S-3XL



# EXCEL FR

100% COTTON.  
100% COMFORT.  
100% FLAME-RESISTANT.

EXCEL FR® cotton garments offer unbeatable protection for foundries, flame cutting and welding, as well as electrical utilities and the chemical, oil, gas and petrochemical industries. All EXCEL FR® cotton apparel is permanently treated to guarantee flame resistance for the life of the garment.

## EXCEL FR® LONG SLEEVE TAGLESS HENLEY SEL2

**FABRIC** Flame-resistant EXCEL FR® 7.25-ounce, 100% cotton interlock

**PROTECTION** Category 2 | Arc Rating ATPV 9.6 calories/cm<sup>2</sup>

**FEATURES** Rib knit henley collar | Tagless brand label and warning label | Three-button placket | Left chest pocket | Rib knit cuffs

**STANDARDS** This flame-resistant garment meets the requirements of NFPA 2112, Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire 2012 Edition.

ADULT SIZES S-4XL



## EXCEL FR® SHORT SLEEVE TAGLESS TEE SET8

**FABRIC** Flame-resistant EXCEL FR® 7.25-ounce, 100% cotton interlock

**PROTECTION** Category 2 | Arc Rating ATPV 9.6 calories/cm<sup>2</sup>

**FEATURES** Rib knit crewneck collar | Tagless brand label and warning label | Left chest pocket | Open hem sleeves

ADULT SIZES S-4XL





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## EXCEL FR® TEAM JACKET

JET2



**FABRIC** Flame-resistant EXCEL FR® 9-ounce, 100% cotton twill shell, 100% cotton lining, 100% modacrylic insulation

**PROTECTION** Category 4 | Arc Rating ATPV 52.0 calories/cm<sup>2</sup>

**FEATURES** Meets IL50 industrial laundry standards | Nomex® rib knit collar, cuffs and waistband | Heavy-duty Nomex®-taped brass zipper | Two large inset, welted slash pockets | Left sleeve pocket

ADULT SIZES S-3XL



NAVY





**EXCEL FR® CLASSIC COVERALLS CEC2 CEC2LONG**



**FABRIC** Flame-resistant EXCEL FR® 9-ounce, 100% cotton twill

**PROTECTION** Category 2 | Arc Rating ATPV 11 calories/cm<sup>2</sup>

**FEATURES** Meets IL50 industrial laundry standards | One-piece, topstitched, lay-flat collar | Two-way concealed Nomex®-taped brass breakaway zipper with a concealed snap at the top of the zipper and at neck | Open hem sleeves | Two set-in front pockets | Left chest pocket | Two patch hip pockets | Side vent openings

**STANDARDS** This flame-resistant garment meets the requirements of NFPA 2112, Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire 2012 Edition; EN ISO 11612:2008, Protective Clothing Against Heat and Flame; EN 340:2003, Protective Clothing—General Requirements; and IEC 61482-2:2009, Live Working—Protective Clothing Against the Thermal Hazards of an Electric Arc.

ADULT SIZES 38–64  
(ORANGE: 38–58)

LONG SIZES 42–58  
(ORANGE: 42–52)



KHAKI



NAVY



ORANGE



ROYAL BLUE



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100% FLAME-RESISTANT.

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# EXCEL FR COMFORTOUCH

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NYLON'S DURABILITY.

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## EXCEL FR® MEN'S STRAIGHT FIT SANDED DENIM JEAN PEJM



**FABRIC** Flame-resistant EXCEL FR® 12.5-ounce, 100% cotton denim

**PROTECTION** Category 2 | Arc Rating ATPV 18.0 calories/cm<sup>2</sup>

**FEATURES** Meets IL50 industrial laundry standards | Soft garment-rinsed and hand-sanded for comfort and looks | One-piece waistband with button closure | Five jean-style pockets | Two-needle felled seam construction

EVEN WAIST SIZES: 28"-50"  
37" UNHEMMED INSEAM



## EXCEL FR® COMFORTOUCH® WORK PANT PLW2



**FABRIC** Flame-resistant EXCEL FR® ComforTouch® 9-ounce, 88/12 cotton/nylon

**PROTECTION** Category 2 | Arc Rating ATPV 12 calories/cm<sup>2</sup>

**FEATURES** Meets IL50 industrial laundry standards | Interlined waistband with button closure | Two slack-style front pockets | Two set-in hip pockets, left hip with button closure

**STANDARDS** This flame-resistant garment meets the requirements of NFPA 2112, Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire 2012 Edition; EN ISO 11612:2008, Protective Clothing Against Heat and Flame; EN 340:2003, Protective Clothing—General Requirements; and IEC 61482-2:2009, Live Working—Protective Clothing Against the Thermal Hazards of an Electric Arc.

EVEN WAIST SIZES: 28"-50"  
36" UNHEMMED INSEAM: 28", 40"-50" WAIST  
37" UNHEMMED INSEAM: 30"-38" WAIST





# SIZING

<b>iQ Series™ Shirts</b> QT12, QT20, QT32						
Adult Sizes	M	L	XL	XXL	3XL	4XL
Chest	38-41	41-45	45-49 ½	49½-54	54-58½	58½-63

<b>EXCEL FR® ComforTouch® &amp; CoolTouch®2 Shirts</b> SLU2, SMU2						
Adult Sizes	S	M	L	XL	2XL	3XL
Chest	32½-36	36½-40	40½-44	44½-48	48½-52	52½-56
Neck	13½-14½	14½-15½	15½-16½	16½-17½	17½-18½	18½-19½
Waist Max	35¼	39¾	44¼	48¾	52¾	56¾
Regular Sleeve Length	33	33½	34	34½	35	35

<b>EXCEL FR® Shirts</b> SEL2, SET8							
Adult Sizes	S	M	L	XL	XXL	3XL	4XL
Chest	38½-40	40½-42	42½-44	44½-46	46½-48	48½-50	50½-52

<b>EXCEL FR® Jacket</b> JET2						
Adult Sizes	S	M	L	XL	XXL	3XL
Chest	36-38	40-42	44-46	48-50	52-54	56-58

<b>EXCEL FR® Coverall</b> CEC2, CEC2LONG Khaki, Navy and Royal Blue. +These sizes offered in long. *Orange only available in 38-58. Orange long only available in 42-52.														
Numeric Size	38*	40*	42*+	44*+	46*+	48*+	50*+	52*+	54*+	56*+	58*+	60	62	64
Chest Size	36½-38	38½-40	40½-42	42½-44	44½-46	46½-48	48½-50	50½-52	52½-54	54½-56	56½-58	58½-60	60½-62	62½-64
Waist Max	38½	40½	42½	44½	46½	48½	50½	52½	54½	56½	58½	60½	62½	64½

CEC2: 5'7" - 5'11", inseam 30½" CEC2LONG: 5'11"-6'3", inseam 32"

<b>EXCEL FR® Denim Jean</b> PEJM												
Waist	28	30	32	34	36	38	40	42	44	46	48	50
37" unhemmed	X					X	X	X	X	X	X	X
37" unhemmed		X	X	X	X							

37" Unhemmed inseam on all sizes. Hemming services available in 1/2" increments on unfinished styles. Hemming fee is \$.50 per pant.

<b>EXCEL FR® ComforTouch® Work Pant</b> PLW2												
Waist	28	30	32	36	38	40	42	44	46	48	50	
36 unhemmed	X					X	X	X	X	X	X	
37 unhemmed		X	X	X	X							

Hemming services available in 1/2" increments on unfinished styles. Hemming fee is \$.50 per pant.

