



FLASHGUARD® BRELITE™ AR 160G (4.7 OZ.)

Extremely lightweight and comfortable, inherently flame-resistant fabric

INHERENT FR FABRIC

FABRIC CODE 05 AND 07*

Weight	Greige	150 g/m ² (4.5 oz./yd ²)
	Finished	160 g/m ² (4.7 oz./yd ²)

Blend	65% Lenzing FR, 33% Aramid, 2% Anti-stat
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Weave	2/1 Twill
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COMPLIANCE




Heat and Flame	EN ISO 11612 A1 + A2, B1, C1, F1 (single layer)
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Flashfire	NFPA 2112 UL Recognized Component
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Electric Arc Flash	IEC 61482-2 (Class 1) ASTM F1959 (8.5 cal/cm ²) CAT 2
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Anti-static	EN 1149-5
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Oeko-Tex®	Oeko-Tex® Standard 100 sets limits for maximum content of formaldehyde, pesticides, PCBs, heavy metals, azo dye, arylamine flame-retarding agents, phthalates, volatile organic substances, biocides and other substances.
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STANDARD COLORS	 Yellow (59)
	 Orange (57)
	 Red (55)
	 Navy Blue (53)
	 Royal Blue (54)
	 Petro Blue (52)
	 Tan (51)
	 Light Gray (76)
	 Graphite Gray (56)

Please confirm availability with your Red Wing representative. Special order colors available upon request.

WASH AND CARE

Standard home, commercial and industrial laundering is appropriate. When laundering instructions are followed, shrinking tolerance is typically 2-4%.



Machine wash normal
Unlined: max 60° C / 140° F
Insulated: max 40° C / 104° F



Do not bleach



Iron medium heat:
max 150° C / 300° F



Dry clean: any solvent
except trichloroethylene



Tumble dry normal:
low heat

Do not use cleaning agents containing organic soap, chlorine bleach, hydrogen peroxide or any bleaching agent.

Do not use softeners or starch.

FlashGuard® Brelite™ AR is leading the next generation of lightweight, inherently flame-resistant fabrics. This Red Wing-exclusive fabric is extremely lightweight and comfortable, making it a superior solution in hot and temperate climates. It combines an innovative blend of Lenzing FR and aramid fibers that manage moisture well, maintain color through tough laundering conditions and offer excellent flash fire protection.

FEATURES

- FlashGuard® Brelite™ AR fabric provides comfort, breathability and flexibility, along with the superior strength and durability of synthetic fibers
- Absorbs moisture and transfers it away from the body, keeping the wearer dry and comfortable
- Extremely lightweight, performs well in a variety of climates, and is particularly well-suited for hot and humid conditions

FLAME-RESISTANT PROPERTIES

- When exposed to flash flame, FlashGuard® Brelite™ AR fabric fibers carbonize and will not melt or drip, forming a barrier to minimize burns to the wearer's skin
- Inherently flame-resistant, with FR properties that last throughout the fabric's lifetime, regardless of washing frequency

PERFORMANCE

Two frequent burn incidents on the job: [flash fire](#) and [electric arc flash](#).

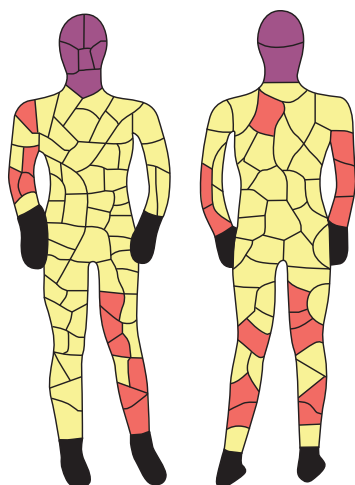
- Pyroman™ Mannikin Burn Test** – all protective fabrics used in Red Wing Workwear are tested using Pyroman™ – a burn test that uses 122 heat sensors to analyze the potential for human tissue burn damage from a flash fire.
- Layered Arc Thermal Protective Value (ATPV) Ratings** – ATPV measures the amount of heat energy a fabric can protect from in the event of an electric arc flash. When garments are worn in layers, the overall ATPV typically exceeds the sum of the values for each individual layer, due to the pockets of air between layers that enhance electric arc flash protection.

Results for the test shown on the next page >>

*Garments manufactured with FlashGuard® Brelite™ AR Fabric Code 07, will be manufactured using brass zips and FR thread to comply with NFPA 2112 Whole Garment Certification.



Pyroman™ Mannikin Burn Test



Total Burn Area **26.23% ***
(Including head and neck)

Invalid Sensor

No Burn

19.67% Total 2nd Degree Burn

0.00% 3rd Degree Burn (body)

6.56% 3rd Degree Burn (head/neck)

6.56% Total 3rd Degree Burn**

* Total Burn Area excluding head/neck not covered by fabric: 19.67%

** 3rd Degree Burn Area excluding head/neck not covered by fabric: 0.00%

Test conducted with Red Wing 601 Series Coverall.

Test conducted by the Textile Protection and Comfort Center
College of Textiles, North Carolina State University Raleigh,
North Carolina, USA.

Layered Arc Thermal Protective Value (ATPV) Ratings

	Inner Layer	Middle Layer	Outer Layer	ATPV (cal/cm ²)	CAT
1 Layer	4.7oz FlashGuard Brelite AR (Q05/07)			8.5	2
2 Layers	4.7oz FlashGuard Brelite AR (Q05/07)		4.7oz FlashGuard Brelite AR (Q05/07)	23	2
			6.5oz FlashGuard TM (Q11/21)	24	2
			8.5oz FlashGuard RainShield	24	2
3 Layers	4.7oz FlashGuard Brelite AR (Q05/07)	170g FR cotton lining	4.7oz FlashGuard Brelite AR (Q05/07)	23	2

