NOTHING WORKS HARDER FOR THE COMFORT OF YOUR CREW

carbartt

HERE'S PROOF

carharttFRG



KEEP YOUR CREW COOL, PROTECTED AND SAFE. LEARN MORE ABOUT THE NEW 4.7 OZ LONG SLEEVE FR SHIRT AT CARHART.COM/COMPANYGEAR OR CALL 866-698-1125



THE ALL NEW 4.7 OZ FR LONG SLEEVE SHIRT FROM CARHARTT

Nothing tests a crew's resolve and the effectiveness of their gear like the extreme heat and humidity found in the electric utility and oil and gas industries. Enter Carhartt's new FR Lightweight, long-sleeve shirt. At just 4.7 ounces it's the lightest, most breathable Carhartt FR shirt ever created with all of the toughness and protective properties of substantially heavier shirts (Meets CAT 2 arc flash protection rating, NFPA 2112 certified for protection against short-duration thermal exposure to fire). Carhartt's 4.7oz Long Sleeve FR shirt is available in four colors for both men and women.

Comfort & protection woven in

The FR Force Lightweight Long Sleeve Shirt's innovative weave design features yarns produced from fibers optimized to deliver more FR protection per ounce. Built with Carhartt Force technology to wick sweat and fight odors. Engineered with 10% stretch for increased mobility, wrinkle resistance, anti-static properties, and long-lasting color wash after wash.

To prove the new 4.7oz shirt is the lightest, most breathable FR shirt, Carhartt engineers sent samples of their FR shirts and some competitors to Kansas State University to evaluate the thermal and evaporative resistance properties of the garment. The evaluation was conducted as a blind test. Sample 3 data (highlighted) represents the performance of the 4.7 oz FR shirt as compared to the others.

DESCRIPTION OF SHIRT SAMPLES

Sample	Sample Description	Shell Material		
SAMPLE 1	CARHARTT FR	6 OZ. LW TWILL - 88% CTN/12% NYLON WITH WICKING		
SAMPLE 2	CARHARTT FR	7 0Z. 3/1 LH TWILL - 88% CTN/12% NYLON		
SAMPLE 3	CARHARTT 4.70Z Long Sleeve Fr Shirt	4.7 0Z. STELLAR WEAVE - 50% LENZING FR, 38% ARAMID, 10% POLYAMIDE, 2% ANTISTAT WITH MOISTURE MANAGEMENT AND ANTI-MICROBIAL		
SAMPLE 4	COMPETITOR FR	5.3 0Z. 74% META-ARAMID, 20% MODACRYLIC, 5% PARA-ARAMID 1% ANTISTAT		
SAMPLE 5	COMPETITOR FR	6.5 OZ. SAUK II TWILL - 88% COTTON/ 12% NYLON WITH MOISTURE MANAGEMENT		

EVAPORATIVE RESISTANCE TEST RESULTS

Ensemble Code and Description	Total Local Evaporative Resistance Values for Torso and Arms ^a	Total Local Evaporative Resistance Values for Torso ⁶	Total Evaporative Resistance - R _{et} (m²•Pa/W)	Intrinsic Evaporative Resistance of Clothing - R _{ecl} (m ² •Pa/W) ^c	Moisture Permeability Index - i ^m
SAMPLE 1: CARHARTT FR	30.55	35.03	27.97	17.23	0.36
SAMPLE 2: CARHARTT FR	31.40	34.40	28.46	17.72	0.36
SAMPLE 3: CARHARTT 4.70Z LONG SLEEVE SHIRT	29.25	32.40	27.33	16.59	0.37
SAMPLE 4: COMPETITOR FR	31.00	34.43	27.97	17.23	0.36
SAMPLE 5: COMPETITOR FR	30.23	35.47	27.93	17.19	0.36

The Kansas State University testing reported the following findings:

- Lower evaporative resistance values coupled with higher moisture permeability index are desirable for comfort
- Carhartt's 4.7oz FR Long Sleeve Shirt led the field in moisture transfer through the garment as indicated by lower resistance values
- Not only did Carhartt's 4.7oz FR Long Sleeve Shirt yield the best results for reduced heat stress and hot weather comfort, it also outperformed the others, which can be substantiated with the data.