



# **Chevron Products**

## **Terminal Operations**

### **Fire Resistant Clothing (FRC) Standard**

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**Version 1.0**

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## Purpose

This Standard provides direction for Chevron Products Terminal locations, employees, and contractors on the consideration, selection, training, and use of Fire-Resistant Clothing (FRC).

In addition to the requirements in this Standard, local regulations shall apply and may require additional safeguards beyond those defined in this standard. In the event there is a conflict between regulatory, Chevron, and/or business partner requirements, the more stringent shall apply.

## **FIRE RESISTANT CLOTHING (FRC)**

### **Requirements for use of flame-resistant clothing (FRC)**

- In alignment with the Enterprise standard and regulatory requirements, Chevron Products locations shall assess their operations and each unique operating environment to determine locations or work activities that require the use of FRC. Completed assessment, including final conclusions and recommendations, shall be documented, and maintained by the Business Unit.
- Due to the nature of the activities within the Chevron Products terminal locations, the potential for fire related incidents is present in all terminal locations requiring the use of FRC. The types of activities identified include:
  - a. Heightened risk due to potential generation of static electricity from the transfer of flammable materials
  - b. Bulk storage and handling of flammable material
  - c. Maintenance related Hot work activities occurring within the location
  - d. Electrical Classified areas: Electrical maintenance activities
- FRC that meets or exceeds safety performance of NFPA 2112, or equivalent standard, shall be worn whenever there is a potential for flash fire, arc flash or as identified by an additional hazard assessment. This may include worksites mandated by local regulatory requirements, Hazardous Classified Areas, hot work operations and/or worksites that have the potential to release or accumulate flammable materials.
- All PPE, to include FRC, shall be provided, used, and maintained by Contractor in accordance with the Required Standard of Performance, including manufacturer's instructions.

### **FRC material selection and use**

- When FR Clothing is used, Chevron Products Terminal locations shall provide FR Clothing to Chevron personnel as applicable that meets or exceeds safety performance of NFPA 2112 or equivalent standard for all Chevron personnel as applicable.

### **FR Clothing shall be defined as approved FR long-sleeved shirt & pant or coveralls.**

- Site Specific locations / clusters will determine local vendor selection and FRC allocation.
- FRC shall be made from inherently flame-resistant materials or from products (e.g., cotton) that have been made flame-resistant via a polymerization process at the fiber level, that ensures the FRC will remain flame-resistant for the useful life of the garment.
- FRC made of surface-treated cotton materials that have been manufactured using surface-only or non-durable methods **shall not be used** in any Chevron Products location.
- FRC shall be worn as designed and according to manufacturer's instructions. Sleeves must be rolled down with garments buttoned and zipped.

- FRC shall be worn as the outermost layer of clothing. Rain gear worn shall be made from flame-resistant materials that comply with ASTM F2733, or equivalent standard.
- FRC shall not be sprayed with flammable materials, including insect repellents. Only insect repellent that has been specifically formulated to not interfere with the performance of FRC may be used directly on material. Other insect repellents shall only be used prior to donning of FRC.

## Maintenance of FRC

- Manufacturers provide instructions for the laundering and maintenance of their FRC products.
- Cluster locations are expected to understand these instructions and communicate laundering requirements to affected personnel.
- Individuals provided FRC are expected to be instructed on how to correctly care for and maintain FRC in accordance with manufacturer's recommendations. See appendix B for general laundering guidance.

## Verification of FRC Use

- FRC use can be verified and confirmed by supervisors and leaders during field engagements. FRC, including rain gear, observed to be in poor condition should be taken out of service and replaced.
- NFPA 2112 requires FRC products to have a label permanently and clearly attached identifying the product as FRC compliant. Cluster locations using FRC that complies with another equivalent standard should review the applicable standard to identify similar identification methods that confirm compliance.

## Selection of FRC products used in Chevron Products

- [Example of Lightweight FR Clothing Options](#)

Supplier – [Tyndal USA](#)

### Tyndale Brand FR Clothing – Lightweight FR Clothing



**J02MT**

Tyndale Versa Raglan T-Shirt

**NFPA 2112** – Certified FR Cotton Blend **CAT 2**



**F166T**

Tyndale Lightweight Button-Down Work Shirt

NFPA 2112 – Certified FR Blend **CAT 2**

### **Carhartt Brand FR Clothing – Lightweight FR Clothing**



**A170C**

Carhartt FR Force Lightweight Long Sleeve Shirt

**NFPA 2112 – Certified FR Blend CAT 2**



**J060C**

Carhartt Force™ Long-Sleeve Henley

**NFPA 2112 – Certified FR Cotton CAT 2**

### [TENCATE Protective Fabrics](#) –



Evolve 650 (Inherent) available through **BulWark®**

**NFPA 2112 – Certified FR (Inherent)**

**Carhartt Brand FR Work Pants**



FR Force Rugged Flex Jeans



Relax Fit Canvas Style 5-pocket Work Pant

❖ Note: Refer to Appendix A for additional Enterprise approved FR Clothing guidelines.

**Document Control**

Description	Corporate	Products Specific
Approval Date	Jan 2020	<a href="#">August 2023</a>
Next Process Document Review		<a href="#">August 2028</a>
Control Number		Version 1.0

**Document Change History**

Date (DD/MMM/YR)	Version Number	Description of Change
<a href="#">1 August 2023</a>	<a href="#">1.0</a>	<a href="#">Chevron Products new standard</a>

## Appendix A

Product Name	Manufacturer / Supplier	Material Type	Meets Enterprise FRC Standard
Carhartt Brands	Cintas	Both inherent and treated via polymerization	Yes
Nomex and Nomex III	Dupont	Inherent	
Lapco 10 oz. Ladies FR Classic Jeans (100% cotton)	Lapco	Treated via polymerization	Yes
Lapco 10 oz. Ladies FR Modern Jeans (100% cotton denim)	Lapco	Treated via polymerization	Yes
FlashGuard	Red Wing	Inherent	Yes
Milliken cotton-blends and modacrylic	Milliken	Both inherent and treated via polymerization	Yes
Proban	Solvay	Treated via polymerization	Yes
Bulwark MVM	Bulwark	Treated via polymerization	Yes
Polartec		Treated via polymerization	Yes
Tencate		Inherent	Yes
Bulwark FR Denim		Treated via polymerization	Yes
Tecasafe		Inherent	Yes
Westex 88/12		Treated via polymerization	Yes
Westex DH	Westex	Inherent	Yes
Glenguard		Inherent	Yes
Indura Brand		Treated via polymerization	Yes
UltraSoft AC		Treated via polymerization	Yes
Tingley FR HI-VIS Rain Gear	Tingley	Inherent	Yes

\*This is not an exhaustive list and other products are available that also meet the requirements of the Enterprise FRC Standard. Consult Cluster HSE personnel for further guidance if needed.

## Appendix B

### How To Wash FR Clothing at Home

- Wash separately in a Normal or Cotton cycle at any water temperature up to a maximum of 140°F (60°C). Use any typical home laundry detergent. **Do not use soap** (tallow soap containing animal fats).
- Turn garments inside out before wash to reduce streaking from abrasion. Fill the washer no more than 2/3 full and use high water level.
- DO NOT use chlorine bleach or liquid non-chlorine bleach.
- Do not use starch or fabric softeners as they may coat fibers and mask FR performance and/or serve as fuel in the event of garment ignition.
- The use of conditioned or soft water can help improve removal of contaminants from garments.
- It is important that all soils and other contaminants are completely removed from garments during the wash process. This may require the use of stain removal products, such as Shout®, Spray 'n Wash®, or Zout®; or presoaking garments prior to washing. The use of hot water can often make detergents more effective in the removal of soils. If all contaminants cannot be removed in home care, garments should be dry cleaned.
- Do not over dry garments. If desired, you may press with an iron on the Permanent Press/Low setting.
- Always consult the garment manufacturer for detailed instructions and precautions.