

# PULP AND PAPER PROVEN.

**DuraChem® 200 delivers Chemical, Thermal and Heat Stress protection in a single garment.**



## **Kappler's DuraChem® 200 provides hi-vis protection against seven critical hazards.**

Appearances can be deceiving – DuraChem® 200 from Kappler is *not* a typical yellow suit. It is a multi-hazard protective garment designed and developed with specific input from pulp and paper processing facilities. Kappler is now introducing this multi-functional apparel to pulp and paper plants across the country.

- Designed specifically for pulp and paper operations.
- Launderable garment and flexible hood options simplify PPE inventory.
- Certified to or compliant with multiple safety standards:
  - Chemical (including Green, Black and White Liquors) – *NFPA 1990 (1992) Certified*
  - Flame Resistant – *NFPA 2112 Certified*
  - Arc Flash – *NFPA 70E Compliant*
  - Steam and Hot Water
  - Heat Stress
  - Molten Metal Splash
  - High Visibility – *ANSI / ISEA 107*

*See testing details on reverse.*





## When the heat is on, DuraChem® 200 is the proven multi-hazard solution.

Hot liquors, hot ash, 300° F steam... things get pretty heated in pulp and paper production. That's what makes DuraChem 200 the ideal solution for multi-hazard, hi-vis apparel. Designed with input from pulp and paper facilities, this unique garment provides flexible protection from smelt to line breaks. Plus the breathable garment means reduced heat stress, improved comfort and better productivity. Add chemical, biological, molten metal splash, arc flash and FR protection in a single suit, and DuraChem 200 is a proven workhorse for pulping operations.

## Data makes the difference with DuraChem 200.

### Chemical Testing

NFPA 1990 (1992) Test Battery plus many other specific chemicals including Green, Black and White Liquors. Chemical penetration testing was conducted in accordance with ASTM F903 Procedure C.

### Thermal and Burn Testing

Heat Transfer Performance (HTP) ASTM F2700

Flame Resistance ASTM D6413

Thermal Protective Performance (TPP) ISO 17492

Shrinkage/Heat Resistance ASTM F2894

Manikin Body Burn (Pyroman) ASTM F1930 Exposed Head, min - 6.56%

Heat Transfer Molten Substances ASTM F955

Electric Arc Rating ASTM F1959

Steam 302°F @ 30 psi @ 2.4" University of Alberta (CAN/CSGB 155.20)

Hot Water (185°F @ 6L/min) @ 2.0" University of Alberta (CAN/CSGB 155.20)

### Comfort Testing

Total Heat Loss ASTM F1868 Procedure C

Evaporative Resistance ISO 11092 7.4

Water Vapor Transmission ASTM E96

### Biohazard Testing (Fabric & Seams)

ASTM F1671 (Blood & Viral Penetration)

### Additional Testing

Cold Temperature Performance ASTM D747

### Hi-Visibility Specifications

DuraChem 200 meets the most stringent requirements of ANSI/ISEA 107 as specified for Type P, Class 3, plus it is compliant with OSHA Roadside Emergency Response requirements. Only applies to hi-vis Yellow fabric.



For test results visit [kappler.com/products/d200](http://kappler.com/products/d200) on your web browser or scan QR code at left.

**Note:** These tests were performed in accordance with ASTM or other appropriate testing methods by independent laboratories. This data is derived from tests performed on material samples only, not finished garments, with exception of Pyroman full-body manikin test. For a complete list of chemicals tested and additional tech data visit [kappler.com](http://kappler.com).

**WARNING:** The information contained herein is based on technical data that Kappler believes to be reliable. It is subject to revision as additional knowledge and experience are gained. Please visit our website at [www.Kappler.com](http://www.Kappler.com) ("Kappler Website") for the most up-to-date product information and specifications. All pamphlets, brochures or other literature or printed material may contain information that is not as current as the information on Kappler's website. Additionally, there are uses, environments and chemicals for which Kappler products, garments and/or fabrics are unsuitable. The user has the responsibility to review all available data and verify the product, garment and/or fabric is appropriate for the intended use and meets all specified government and/or industry standards for such use. The user should review all available information on the Kappler Website, product labels and QR codes to understand the appropriate uses and limitations of Kappler products, garments and fabrics.

**CAUTION:** These garments are designed for protection of personnel against short duration thermal exposures. Do not use for firefighting applications. Minimize exposure to open flame or intense heat.

Durachem 200 fabric contains PFAS. DuraChem 200 fabric does not contain PFOA or PFOS chemistry.

## DuraChem® 200



Shown above are typical garment types for this fabric. View available styles and details at [kappler.com](http://kappler.com)

Navy color (shown with optional reflective stripes) is often preferred for maintenance operations.



Kappler's unique SMART™ label makes sizing easy to see, and a quick QR code scan provides complete chemical data plus extensive suit details.

