## Processes Overview

**Outlast® polyester fiber**

- **Process**: Fiber with PCM
- **Placement**: Products next to skin
- **Product in the textile chain**: Fibers and yarns
- **Suites for**:
  - Knitwear
  - Socks
  - T-shirt/polo shirts
  - Shirts/blouses
  - Dresses
  - Sleepwear
  - Underwear/base layer
  - Trousers
  - Bed linen
- **Not suited for**:
  - Multi-layer products (e.g. jacket linings)
  - Outer fabrics
  - Products requiring high loading
  - Shoes
- **Benefits**:
  - Drapes well in garments
  - Quick drying
  - Available in various staple lengths
  - Combines well with other fibers
  - Can be finished with various technologies
- **Disadvantages**:
  - Limited loading
- **Procedure**:
  - Customer can buy yarns or fabrics from licensed Outlast partners.
- **Care instructions**: Washing
- **Testing / Certification**: DSC

**Outlast® acrylic fiber**

- **Process**: Fiber with PCM
- **Placement**: Products next to skin
- **Product in the textile chain**: Fibers and yarns
- **Suites for**:
  - Knitwear
  - Socks
  - T-shirts/polo shirts
  - Shirts/blouses
  - Dresses
  - Sleepwear
  - Underwear/base layer
  - Bed linen
  - Mattress ticking
  - Workwear/uniforms
- **Not suited for**:
  - Multi-layer products (e.g. jacket linings)
  - Outer fabrics
  - Products requiring a high loading
  - Shoes
- **Benefits**:
  - Dyes well with superb fastness
  - Exceptional resistance to sunlight degradation
  - Highly resilient with good resistance to abrasion
  - Quick drying
  - Acrylic naturally wicks moisture away from the skin
- **Disadvantages**:
  - Limited loading
- **Procedure**:
  - Customer can buy yarns or fabrics from licensed Outlast partners.
- **Care instructions**: Washing
- **Testing / Certification**: DSC

**Outlast® viscose fiber**

- **Process**: Fiber with PCM
- **Placement**: Products next to skin
- **Product in the textile chain**: Fibers and yarns
- **Suites for**:
  - T-shirts/polo shirts
  - Shirts/blouses
  - Dresses
  - Sleepwear
  - Underwear/base layer
  - Bed linen
- **Not suited for**:
  - Multi-layer products (e.g. jacket linings)
  - Outer fabrics
  - Products requiring a high loading
  - Shoes
- **Benefits**:
  - Softness and comfort similar to cotton or silk
  - Drapes well in garments
  - Absorbs moisture
  - Available in various staple lengths
  - Natural fiber based on cellulose
- **Disadvantages**:
  - Limited loading
- **Procedure**:
  - Customer can buy yarns or fabrics from licensed Outlast partners.
- **Care instructions**: Washing
- **Testing / Certification**: DSC

**Outlast® coating**

- **Process**: Coated/printed materials
- **Placement**: Products close to skin
- **Product in the textile chain**: Fabrics
- **Suites for**:
  - Multi-layer products (e.g. jacket linings)
  - Apparel, accessories (jackets, gloves, hats, etc.)
  - Shoes
  - Bedding products (duvets, pillows, mattress pads, mattresses)
  - Seating
- **Not suited for**:
  - T-shirts/polo shirts
  - Casual shirts
  - Dresses
  - Sleepwear
  - Underwear
  - Bed linen
  - Mattress ticking
- **Benefits**:
  - Concentrated PCM levels for higher loading
  - Versatile (numerous applications in a variety of industries)
  - Breathable Outlast® thermo-adaptive matrix coating
  - Cooling effect (material is cool to touch)
  - Hand feel stiffer
  - Higher weight
- **Disadvantages**:
  - Individual development work may be necessary
- **Procedure**:
  - Customer can buy fabrics from Outlast or licensed Outlast partners.
- **Care instructions**: Washing and dry cleaning
- **Testing / Certification**: DSC

**Outlast® MIC**

- **Process**: Application process where an advanced formulation of Outlast® technology is printed onto flat fabric
- **Placement**: Products next to skin
- **Product in the textile chain**: Fabrics
- **Suites for**:
  - Multi-layer products (e.g. jacket linings)
  - Woven fabrics
  - Shoes
- **Not suited for**:
  - T-shirts/polo shirts
  - Casual shirts
  - Dresses
  - Sleepwear
  - Underwear
  - Bed linen
  - Mattress ticking
- **Benefits**:
  - Can be applied to polyester, nylon, cotton or other natural fabrics
  - Durable through multiple washes
  - Wicking and wicking durability controlled by base fabric
  - Does not affect drape of fabric
  - Can be combined with other technologies (antimicrobials, wicking...)
- **Disadvantages**:
  - Individual development work may be necessary
- **Procedure**:
  - Customer can buy fabrics or MIC treatment on own fabrics from Outlast.
- **Care instructions**: Washing
- **Testing / Certification**: DSC