Durable Water Repellency in Outdoor Products

One CAS fits all?

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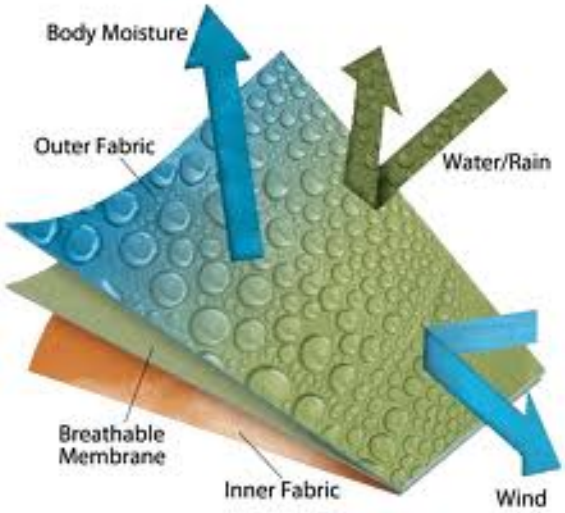
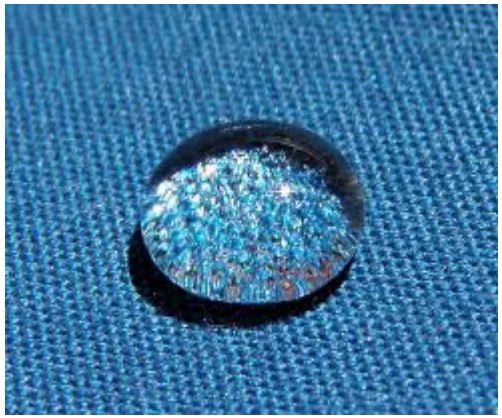
Why Durable Water Repellency (DWR)?

Your outdoor adventures can be wet… very, very wet.

Rainwear Applications of DWR





What Matters in Rainwear?

- Water Repellency
- Waterproofness
- Moisture Vapor Transmission

- "*the jacket leaks*" one of top reasons for rainwear returns, however frequently mis-diagnosed
  - Fabric 'wetting out' from DWR break-down
  - Over saturation on the inside of a garment from a lack of breathability

What is Acceptable Performance ?

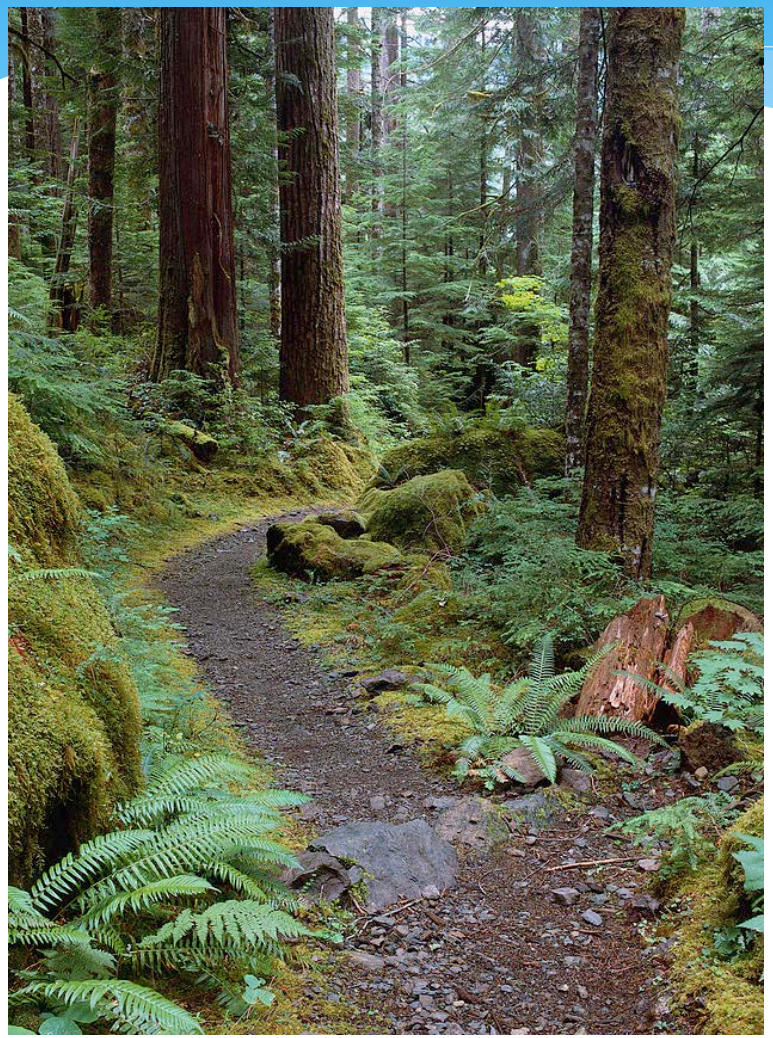
* Depends on whom you ask…

DWR gets further complicated…

Our Challenges

- Not all products types need the same level of DWR… but product sales & marketing tends to be the strongest driver
- The most effective treatments, from a performance perspective, are also associated with the most toxic, persistent, and bioaccumulative (Long Chain PFCs) issues
- These least desirable treatments—from a hazard perspective—also tend to be the least expensive
- Performance requirements and their minimums are not well established, nor understood
- A single methodology for hazard analysis, and the expectation for its use, has not been established

The Trail Ahead…



Needs:

1. A universal method for hazard analysis
2. A better understanding of all the variables in all use cases
3. Universally applied methods to measure and report efficacy for each unique use case
4. Collaboration to make this all happen