



D65 Shade Eval/PFAS



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The Nation's Combat Logistics Support Agency

D65 Transition

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November 16, 2023





Notice to Services

- 2023-09-07 Requirements for C&T to transition to D65 Shade Evaluation sent to the services.
 - Letter of Intent
 - D75 re-evaluation option?
 - Items new to C&T all D65
 - Pilot Program for existing items
 - Review at 6 months





Service Response

- 2023-10-10 US Marine Corps
 - Transition has started – look for modifications
 - No re-evaluation under D75 for D65 failures
 - Identify light source on shade DD1222s, assume D65
- Today – all other Services pending





Shade DD1222s

16. NSN	17. PART NUMBER	18. LOT/BATCH NUMBER
19. DATE OF MANUFACTURE (YYYYMMDD)	20. ENGINEERING AUTHORITY	21. MQCSS/QSL REVIEW <input type="checkbox"/>
22. REMARKS AND/OR SPECIAL INSTRUCTIONS AND/OR WAIVERS. By signing in box 15, I certify that the samples referenced above were randomly selected and represent the lot identified above. Light Source: D65 Shade: Green 2212 Roll #: 3935 Sample #s: see attached		

Light Source: **(list D65 or D75 according to the contract)**

Shade: **(shade name for the color of the fabric)**

Roll #: **(unique shade standard designation)**

Sample #s: **(the IDs you assigned to the samples)**



Product Test Center

- Is the Shade Lab ready?
 - Dedicated D65 Shade Room
 - D75 Lights in main Shade Room
 - Yes!





Contacts

- Contractual questions
 - the KO
- DD1222 Shade Evaluation formatting
 - paactlab@dla.mil
- PTC Shade Room visits
 - Jamie Hieber, Jamie.Hieber@dla.mil
 - Len Morlino, Leonard.1.Morlino@dla.mil
 - Brittany Giosia, Brittany.Giosia@dla.mil





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PFAS Overview

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What is PFAS?

per- or polyfluoroalkyl substances

Per – all

Poly – many

Fluoro – fluorine

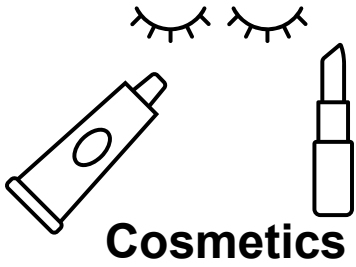
Alkyl – carbon with all single bonds

Substances – chemical

Umbrella term that includes nearly 9,000 different substances.



PFAS Applications



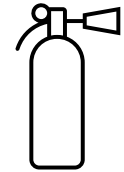
Cosmetics



Aviation



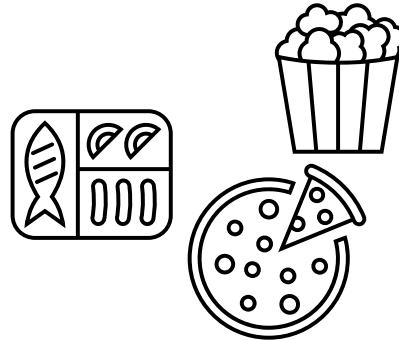
Medical Devices



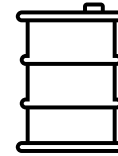
**Fire Fighting Gear
Fire Fighting Foam**



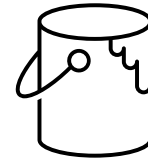
Face Masks



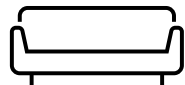
Food Packaging



Wetting Agents



Paint



**Stain Repellent
Finish**



Perc Replacement



Paper Straws

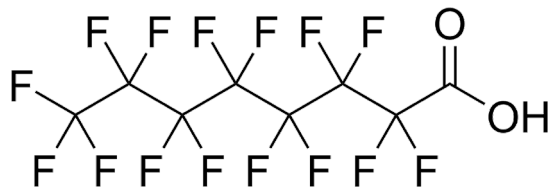


**Pesticides
Mosquito Repellent**

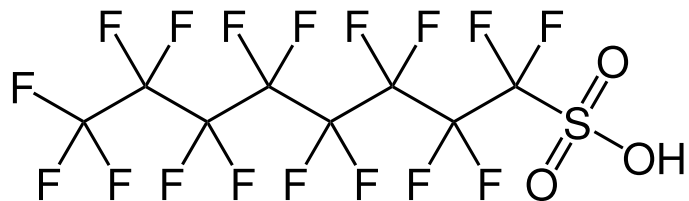


Evolving Regulation

C8 Chemicals



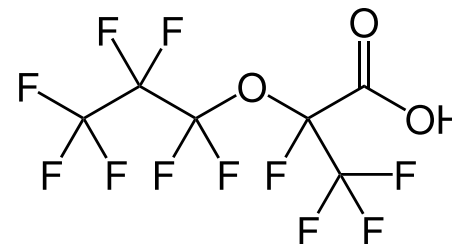
PFOA



PFOS



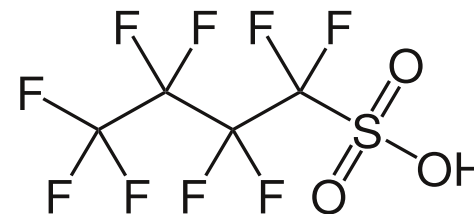
GenX (C6)



FRD-903



C4

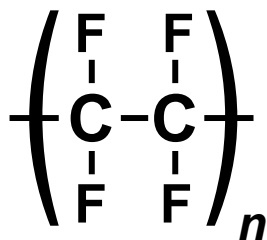


PFBS

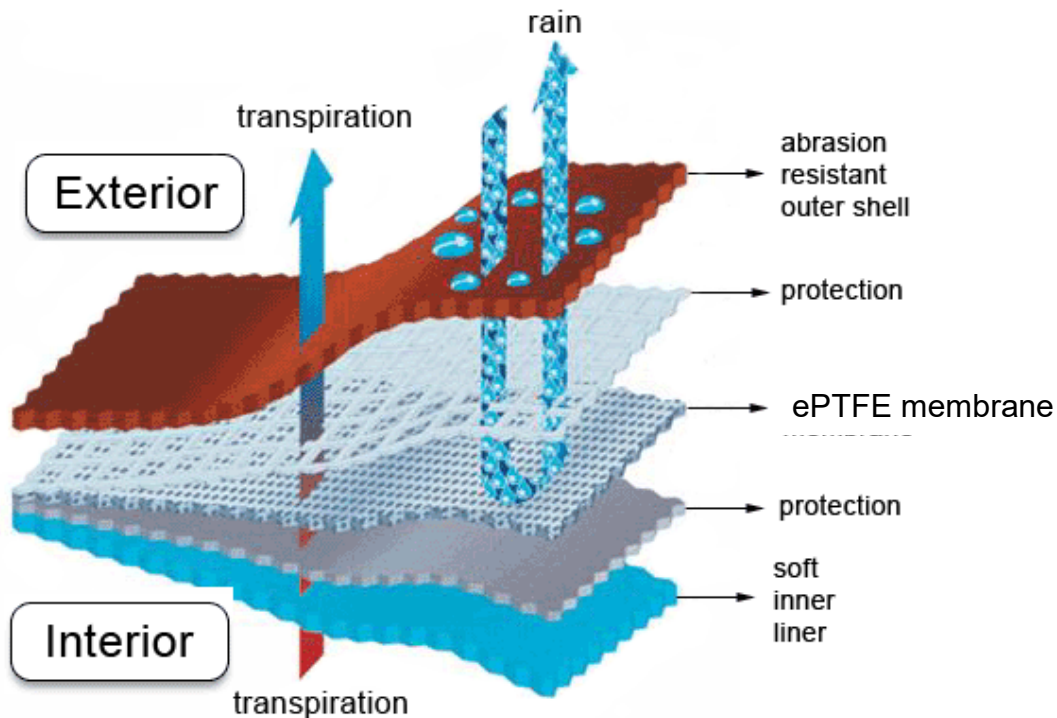


PFAS and the Textile Industry

Waterproof Barriers



PTFE



Often, but not always listed by name in the specification/purchase description.



Waterproof Barrier Example

GL/PD 07-06C Gloves, Fuel Handler

3.4.3 Insert barrier. The insert shall be constructed from a waterproof, moisture vapor permeable, three-layer laminate. The three-layer laminate shall consist of a textile layer, a film layer, and a textile layer. The film layer shall be a microporous expanded polytetrafluoroethylene.

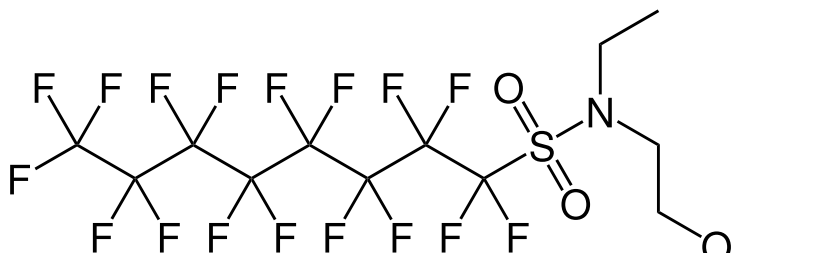
PD 77AESG 06-01A Boot, Man's Combat, TW, Air Force

3.3.3.1.1.3 Waterproof film. The waterproof film shall be polytetrafluorethylene, microporous.

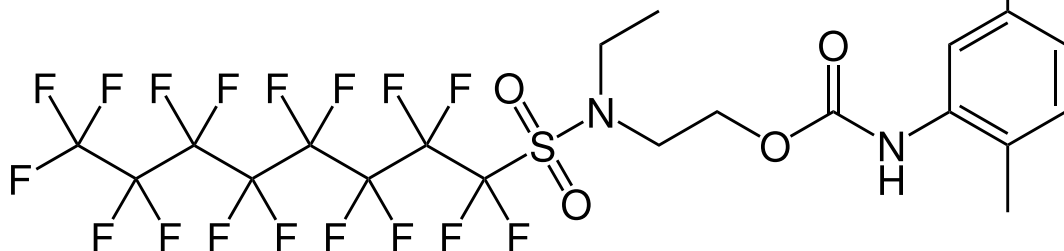


PFAS and the Textile Industry

Durable Water Repellency



C8 Chemical

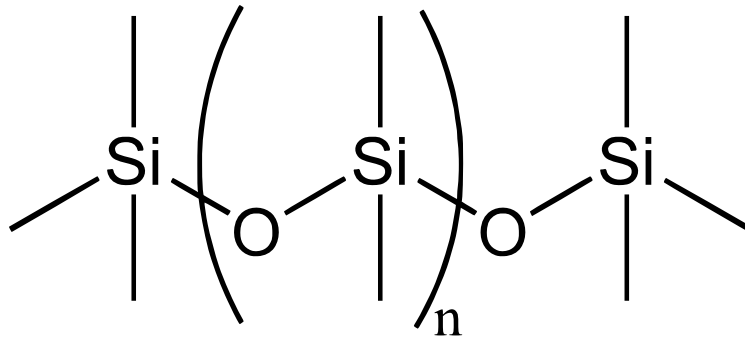


Sometimes, but not often listed by name in the specification/purchase description.
Sometimes listed by name in the contract.



PFAS and the Textile Industry

Mold Release Agent



PDMS
(not PFAS!)



Rarely listed by name in specification or contract.



Risk

- PFAS is everywhere
- PFAS has not been well disclosed
- Suppliers may exit market in advance of regulation
 - Milliken eliminated all PFAS by 2023
 - 3M to end PFAS production by 2025
- Military-use exemptions to regulation may be insufficient



C&T's Efforts

- Respond to supplier notifications of affected items
- Stay tuned to communications from industry (3M/Milliken)
- DoD working groups
- Analyze keywords in specifications/purchase descriptions
 - PTFE
 - Water Repellency
 - Oil Repellency
 - Rubber/plastic components

 - 39 notifications from industry
 - ~80 under further evaluation



Industry Involvement

- Explore your entire supply chain
- Communicate findings to C&T
- Supply items that meet the contractual requirements
- Keep an eye out for future communications



Contacts

C&T PFAS Point of Contact

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215-737-3229

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