2019 ANNUAL UPDATE ON "GORE FABRICS' GOAL AND ROADMAP FOR ELIMINATING PFCS OF ENVIRONMENTAL CONCERN"

INTRODUCTION

GORE[®]

In February 2017, Gore Fabrics announced the "Goal and Roadmap for Eliminating PFCs of Environmental Concern (PFC_{EC})" from the lifecycle of its consumer fabrics products following an intense and fruitful discussion with Greenpeace. This has led to an ambitious research and development (R&D) program for Gore Fabrics that stretches over several years to 2023. This program will allow us to develop new consumer outdoor products targeting the optimal combination of performance and improved environmental footprint.

As we want to make sure that our customers, end consumers and the broader public stay with us on this journey we will publish regular updates on progress we are making in achieving our goals.



PROGRESS REPORT JANUARY 2019

MILESTONES (see details in GORE FABRICS' GOAL AND ROADMAP document)	STATUS	PROGRESS 2019
 Eliminate PFC_{EC} from laminates that correlate with 85% of finished consumer product units (jackets, shoes, gloves and accessories) by end of 2020, 100% by 2023 	Gore Fabrics has dedicated 7 internal teams to develop new fluorinated and non-fluorinated technology over the coming years, making this a priority in our R&D portfolio.	
	Although we are working very hard together with our suppliers on delivering against our plan, we have to accept that true innovation is nothing that can be guaranteed. Due to technical challenges we have met, we currently are working towards first shipments to customers in 2020, with a scale-up towards 2021 and complete elimination of PFC_{EC} by the end of 2023. For specialized outdoor/complex technologies the timeline remains unchanged.	
2. Gore Fabrics introduces new, non-fluorinated DWR for A/W 2018 collection in Q2 2018 (see 2.2.1.)	The new non-fluorinated Durable Water Repellency (DWR) has been selected after a thorough screening and field test phase which demonstrated that this PFC_{EC} free DWR meets our performance standards for activities like lift-served skiing and day hiking.	
	In the beginning of 2018, Gore Fabrics has begun shipping laminates treated with this new PFC_{EC} free DWR to our customers.	
	The introduction of our new, non-fluorinated DWR to our general outdoor product range has exceeded our expectations: >50% of our general outdoor product portfolio has transitioned in 2018.	
3. Product labeling that allows con- sumers to connect Gore Fabrics' progress to the products available in the retail market (see 4.0)	We have developed a new product labelling framework, starting with PFC _{EC} free DWRs, and successfully implemented the framework with brand and retail partners.	

MILESTONES

STATUS

(see details in GORE FABRICS' GOAL AND ROADMAP document)

that are not based on fluorinated materials (see 2.2.3.) at pace, in addition to ePTFE solutions. Following the evaluation of a range of options, we now have a foc effort on the most promising development paths. Ma technical uncertainties have been addressed, but t is still technical work to do and this suggests a long timeline than we had originally anticipated.	
 and high performing PFC_{EC} free materials, commerci PTFE made without PFC_{EC} will take longer than we orig expected. The progress we are making gives us confit that we will achieve our goals, albeit delayed. Alternative membrane materials that are not based on fluorinated materials (see 2.2.3.) We have been actively pursuing alternative materiate to the most promising development paths. Ma technical uncertainties have been addressed, but t is still technical work to do and this suggests a long timeline than we had originally anticipated. 	C _{EC} in
that are not based on fluorinated materials (see 2.2.3.) at pace, in addition to ePTFE solutions. Following the evaluation of a range of options, we now have a foc effort on the most promising development paths. Ma technical uncertainties have been addressed, but t is still technical work to do and this suggests a long timeline than we had originally anticipated.	alizing nally
6. PFC _{FC} free DWR for the most The development of PFC_{FC} free DWR for highly deman	ne used jor here
technically challenging uses (see 2.2.4) end-uses is a significant challenge ahead, but with cl external collaboration we have narrowed our work to th promising routes and are on track to achieve our goa	e most
7. PTFE incineration study to evaluate potential releases of a broad range of PFC _{EC} over representative municipal incineration conditions (see 5.1.) Gore Fabrics evaluated scientific resources worldwing and commissioned the renowned Institute of Technology. Germany, to conduct the PTFE incineration study in its size municipal incineration plant. An independent th party laboratory was selected to perform sample analyses.	ical , pilot ird
A variety of stakeholders have provided input on the of the study plan.	draft
The experimental campaign at the KIT was carried ou February 2018, following a series of validation camp in 2017 and 2018.	
KIT and W. L. Gore are seeking to publish the study i peer-reviewed, scientific publication. Pending feedbac relevant journals, we can say that none of the PFC_{EC} in gated during the combustion of PTFE under standard n cipal incineration conditions could be detected at sign levels above ubiquitous background concentrations.	k from vesti- 1uni-
8. Implementation of a standardized Hazard Assessment Approach, reporting to begin by end of 2018 (see 3.1) Beyond our long standing work with bluesign® system OEKO-TEX® Standard 100, Gore Fabrics will develop deploy additional protocols to rapidly screen the prop of new materials resulting from its innovation progra Gore's product safety and chemical compliance experievaluated a range of emerging methodologies and, but on this work, deployed additional protocols to rapidly the properties of new materials resulting from its inn program. This new approach has been review by third experts and has been implemented in December 2 ⁻¹ Gore will make the approach available to the public in the properties of the public in the properties of the public in the pu	and erties am. ss have ased screen ovation party 018.
bluesign Bluesign	

Page 2 of 2 © 2019 W. L. Gore & Associates GmbH. GORE and designs are trademarks of W. L. Gore & Associates