

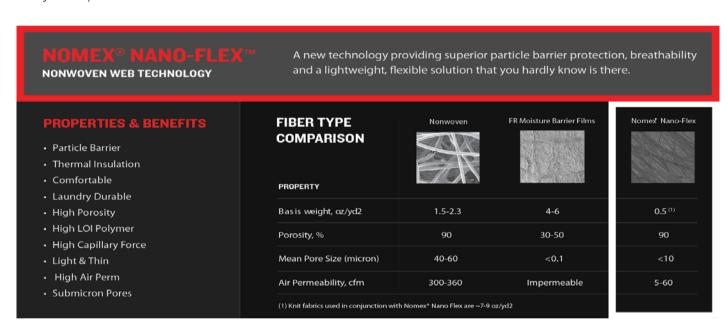
## **H41 FIRE HOODS-FIREDEX**

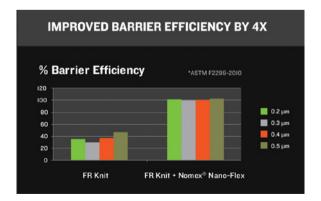
## Scientific Data

The H41 Interceptor™ **blocks 95% of particulates at .2 micron in size** or larger. For perspective, there are 25,400 microns in one inch and a human hair is about 75-100 microns wide, so a .2 micron particulate is about 500x smaller than a strand of hair. Testing has shown that the particulates sized at less than .2 microns don't have enough mass to make it through the double layer knit and the Nomex® Nano Flex; essentially meaning that this hood **blocks 100% of particulates less than .2 microns.** 

Nomex® Nano Flex is a revolutionary new material that can block fine particulates almost as well as an impermeable membrane. Unlike FR moisture barrier membranes however, this new lightweight (0.5oz/yd2), "barely-there" material is actually completely breathable; Nomex® Nano Flex is a non-woven, web technology, made of submicron continuous fibers.

This data demonstrates how very thin, light, and breathable this material is, while still being able to effectively filter particles:





Additionally, adding Nomex® Nano Flex inside the hood's 2 layers gives the hood nearly a 25% boost in TPP, despite being a mere 0.5 oz/yd2.

The data set to the right demonstrates the remarkable difference in particulate blockage from a standard FR Knit Hood to an FR Knit Hood with Nomex® Nano Flex (measuring from 0.5-0.2 microns).

