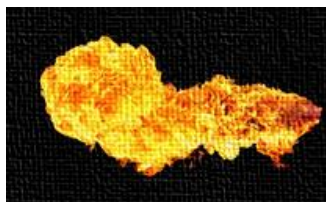


SPEED Science of Racing Machine (2) – Driver's suit



When suited up, Formula One (F1) drivers can survive for 11 seconds in temperatures of 840°C!

What's so special about the suit?

How much protection can the suit offer the driver?

DO YOU KNOW?

1. Nomex®, a highly specialised synthetic material from DuPont has been used in F1 for over 40 years as a way to protect drivers during a crash or fire.
2. It is fire-resistant and lightweight and make up multiple layers of clothing for drivers - overalls, long johns, protective underwear, balaclavas and fire resistant gloves.
3. It is the material of choice for F1 drivers, pit crew, rescue personnel and track officials.
4. Nomex® Fiber Properties:
 - Excellent flame resistance and thermal protection.
 - Stands up to flame temperatures in excess of 1093.3°C.
 - Fibers do not melt or drip.
 - Outstanding resistance to degradation by radiation.
 - Outstanding resistance to degradation at cryogenic conditions.
 - Resistant to chemicals and industrial solvents.
 - Resistant to insects and fungi.
 - Low stiffness of fiber due to chemical bonding arrangement.
 - High elongation.
 - Cut resistant.
 - Abrasion resistant.

Being trapped in a burning house is scary.

Which stuff(s) below could be used to save yourself during a fire? *[Discussion]*



The following are protective clothings and safety equipment. Pair them.

[Google to find out more the materials used to make them.]

Ears



Hands (cold)



Head (sports)



Hands & face



Knees



Head (war)



Body



Keywords: Nomex®, fire resistant

