



**UHMWE-PE FIBER**

**Valens**



**Valens UHMW-PE Fiber** is produced with the gel spinning process which offers maximum strength and minimum density because of its inherently high orientation and crystallization. UHMWPE is ranked with carbon fiber and aramid fiber as the world's top three high performance special fiber and it is also **known as "The king of the fibers."**

**Benefit:**

- 10 times stronger than steel by weight – lighter weight/heavier loads
- High abrasion resistance
- Chemical Resistance (Organic Solvent)
- Chemical Resistance (Alkali)
- Chemical Resistance (Acid)
- Ultraviolet (UV) Resistance
- Waterless Dyed
- Low specific gravity.
- Hydrophobic – no water weight gain
- High Performance
- 45 cN/dtex



**Application:**

- Armour
- Rope
- Ballistic end-uses
- UD Fabric
- Cut resistance glove and Fabrics
- Sports Equipments
- Mattress Ticking
- Cooling Fabric
- Medical end-uses like sutures
- Uniforms & Tactical Gear



**Available:**

FDY From Dtex 33 up to 2600



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