



Hyosung Corporation

THE ULTIMATE STRENGTH FOR A SAFER FUTURE

ALKEX® ARAMID FIBER

Discover New Safety, New Comfort



What is ALKEX?

A premium, cutting-edge super fiber developed using HS Hyosung's exclusive technology, engineered to deliver **unmatched strength, heat resistance, and comfort** for advanced safety applications.

Technical Specification Highlights

Property	Value
Density	1.44g/cm ³
Decomposition Temp	>450°C
Flammability (LOI)	29%
Heat Resistance	90% strength retained after 48h 200°C

The Power of ALKEX



High Strength

5x stronger than steel, ultra-lightweight



Heat Resistance

Does not melt or burn up to 500°C



Durability

High fatigue resistance, maintain under repetitive loads & impacts



Chemical Resistance

Excellent tolerance to harsh chemicals



Reliability

High tensile strength and chemical resistance to various harsh substance



Safety Apparel

Cut-resistant gloves & industrial protective wear

Primary Applications



Protection

Ballistic vests, NIJ-certified helmets, Armored vehicles



Fiber Optic Cables

4G/5G cable reinforcement
Prevents stretching



MRG (Mechanical Rubber Goods)

EV battery cases, hoses & high-performance tires



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