

DuPont™ Kevlar® AP

REINFORCING HOSES FOR THE OIL AND GAS INDUSTRY

Helps achieve improved performance with new or existing umbilical hose designs.

For more than 40 years, the DuPont™ Kevlar® brand of fiber technology has been highly recognized across a wide range of markets for its strength, quality, proven performance and light weight. The latest innovation from DuPont is the Kevlar® Advanced Performance (AP) product family, which offers even more advantages than the standard DuPont™ Kevlar® product, including enhanced performance, improved cost-effectiveness and increased design flexibility to build leaner, more robust products.

DuPont™ Kevlar® has been serving the needs of thermoplastic high-pressure hose manufacturers in the oil and gas and industrial industries for more than 25 years. Now, DuPont™ Kevlar® K29 AP and Kevlar® K49 AP are further enhancing this premier fiber with outstanding strength and temperature and chemical resistance, helping to improve the performance fatigue and burst strength of hoses.

Leaner, more robust products

DuPont™ Kevlar® AP provides increased design flexibility and greater design efficiency than the standard DuPont™ Kevlar® product. For example:

- Designs using a standard para-aramid yarn can reach greater working pressures by using DuPont™ Kevlar® K29 AP.
- The higher modulus of DuPont™ Kevlar® K49 AP helps provide lower volumetric expansion and faster signal response for thermoplastic hoses and umbilicals.
- Greater rupture pressure per weight of reinforcement can be achieved by combining low modulus inner layers and high modulus outer layers within textile layers in the hose.

DuPont™ Kevlar® Fiber Specifications

Traditional Offerings				DuPont™ Kevlar® AP Offerings			
Family	Denier	Tenacity	Modulus	Family	Denier	Tenacity	Modulus
K29	720d	23gpd	600gpd	K29 AP	750d	26.5gpd	620gpd
K29	1000d	23gpd	600gpd	K29 AP	1000d	26gpd	620gpd
K29	1500d	23gpd	600gpd	K29 AP	1500d	26gpd	620gpd
K49	1420d	23gpd	800gpd	K49 AP	600d	25.8gpd	770gpd
K49	2840d	22gpd	880gpd	K49 AP	2840d	23.5gpd	950gpd

Products tested at 1.1 twist multiplier.

Innovation by DuPont

DuPont™ Kevlar® K29 AP is currently available in 750, 1000 and 1500 denier for use in a wide range of high-strength applications. DuPont™ Kevlar® K49 AP is currently available in 600 and 2840 denier for high-modulus applications. The benefits from the advancements in technology of DuPont™ Kevlar® AP go beyond the yarns being introduced today. More offerings will be introduced in the near future.

For more information

To learn more about DuPont™ Kevlar® AP and how this next-generation advanced fiber technology can help you improve the performance of your products, contact us.

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