

**EHP[®]**

When Precision Matters, Use **EHP Engineered Hybrid Power[®]**

EHP[®] High Performance Core Yarns are made from a unique hybrid blend of HMPE Spectra[®] and Aramid Technora[®] fibers

- Superior strength-to-weight ratio promotes easier handling, rigging and transporting
- Very low stretch – Less than 1% at rated capacity

When performance matters:

- Filtec's 108k EHP is the stronger high performance core yarn on the market!

EHP is used across the world by over 25 different high performance sling fabricators.

- 4 X Less Creep with EHP vs. 100% HMPE products at working load!

MATERIAL BENEFITS

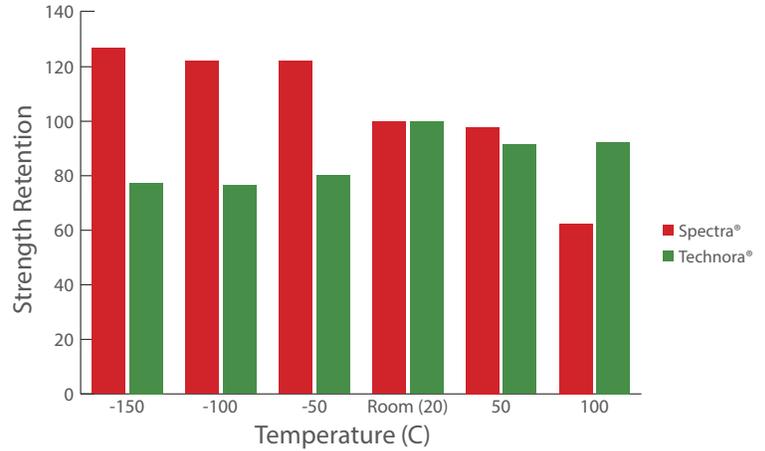
<i>Spectra[®] Fiber</i>	<i>Technora[®] Para- Aramid</i>
Very high tensile strength—15x stronger than steel	Very high tensile strength
High resistance to most chemicals, water and UV light	High chemical resistance
Highly resistant to flex fatigue	Excellent fatigue resistance
Low coefficient of friction	Good heat resistance
Good resistance to abrasion	Special finish reduces yarn on yarn abrasion



Scientifically Engineered for Maximum Strength in a Variety of Conditions

The Benefit of our Hybrid EHP®:

- By scientifically blending Technora® Fiber with Honeywell Spectra® Fiber the resulting EHP Hybrid has improved characteristics in several areas
- As Technora® loses strength at low temperatures Spectra® fiber gets stronger, while Technora® maintains its strength at higher temperatures
- EHP® is suitable for use from -40 C up to 70 C (158 F)



Tensile Strength and the Effect of Cyclic Loading EHP Gets Stronger With Use

Sample	TENSILE STRENGTH INCREASE (%) [*]	
	After 25 cycles cyclic loading	after 50 cycles cyclic loading
72k EHP	+1.0%	+3.2%
108K EHP	+1.9%	+3.2%

**Testing for Tensile Strength Increase performed at Honeywell Advanced Fibers Lab*

All data contained herein is from the fiber manufacturers. Filtec certifies the breaking strength of it's EHP core yarns. No other warranty is expressed or implied

CHEMICAL RESISTANCE	
EHP Materials perform well in the following environments	
Spectra® Fiber	Technora® Para- Aramid
10% detergent solution, Ammonia	Cement
Hydraulic Fluid	Coolant fluid (HW540)
Gasoline, Kerosene, Toluene	Gasoline, Benzene, Para-Xylene
Seawater at ambient temps	Seawater at temps up to 100C
Nitric, sulfuric & phosphoric acids (50% by volume)	Hot water, saturated and super-saturated steam up to 120C

Learn more about EHP at filtec-precise.com or by calling Jim at (910) 653-5200

