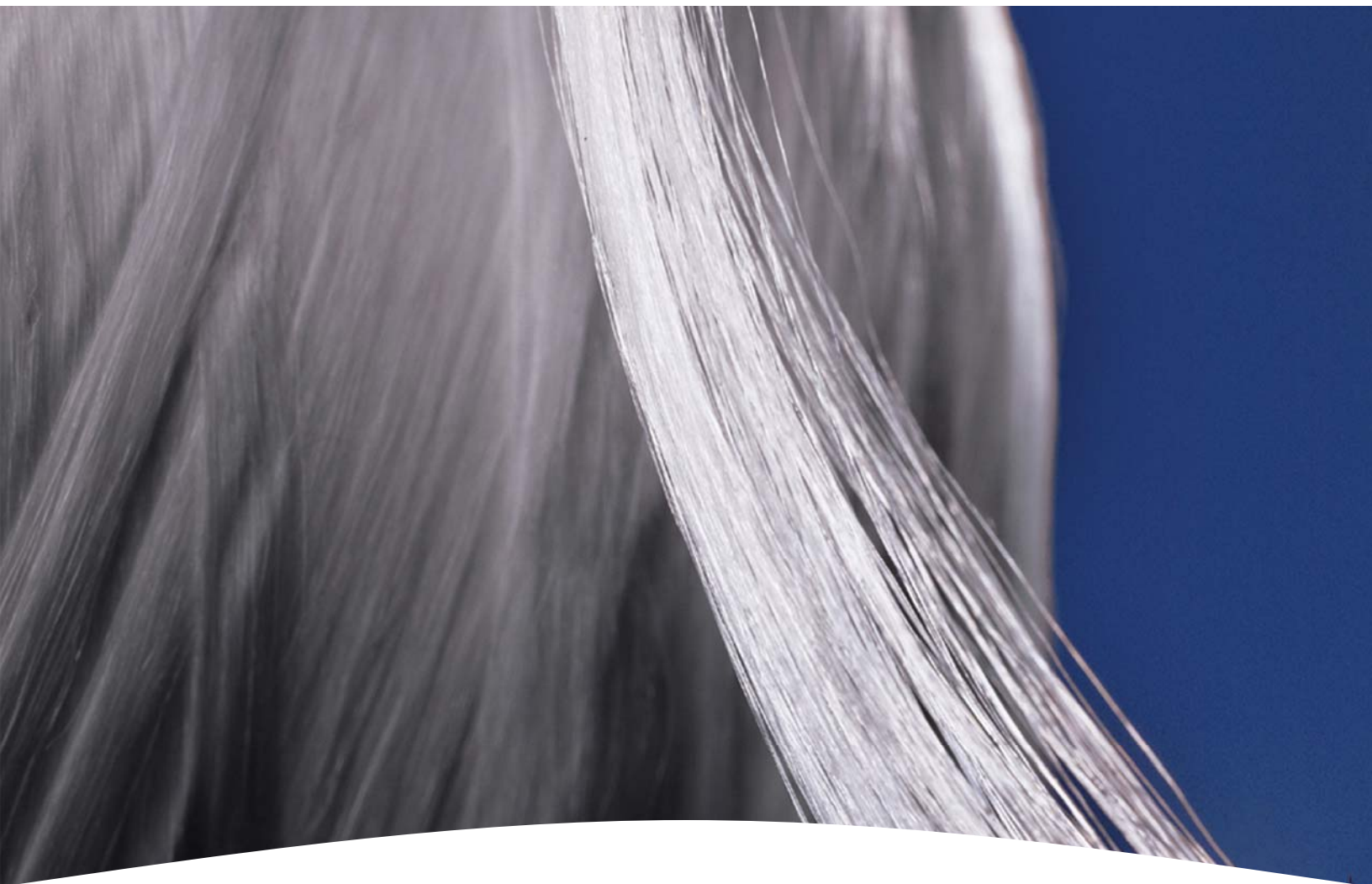


Honeywell



Honeywell Spectra® 2000 fiber
The ultimate high-strength, light-weight
performer

Product Information Sheet

SPECTRA® 2000 fiber

The ultimate high-strength, light-weight performer

The latest generation of Spectra® fiber was developed to provide super-fine, super-strong and ultra-lightweight fibers for armor, aerospace and high-performance sporting goods applications. Spectra® 2000 fiber, Honeywell's premier ballistic fiber, is stronger and lighter than most commercial high-modulus fiber and has the highest strength to weight of any manmade fiber.

Applications:

- Flexible and ultra-lightweight panels for police and military ballistic vests
- Specialty aerospace applications
- Superfine fishing line and kite string

Product Characteristics :

- Light enough to float (.097 Specific Gravity)
- Highly resistant to chemicals, water, and UV light
- Excellent vibration damping
- Highly resistant to flex fatigue
- Low coefficient of friction
- Good resistance to abrasion
- Low dielectric constant makes it virtually transparent to radar

PHYSICAL PROPERTIES			
(Nominal)	Spectra® 2000 fiber		
Weight/Unit Length (Denier)	100	130	180
(Decitex)	111	144	200
Ultimate Tensile Strength (g/den)	39	38	38
(Gpa)	3.34	3.25	3.25
Breaking Strength (lbs.)	8.7	11.1	15.5
Modulus (g/den)	1450	1320	1350
(Gpa)	124	113	116
Elongation (%)	3.0	2.8	2.9
Density (g/cc)	0.97	0.97	0.97
(lbs/in ³)	0.035	0.035	0.035
Filament/tow	40	40	50
Filament (dpf)	2.5	3.3	3.6

For more information:

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Printed in USA