



PAN (STAPLE) FABRIC SPECIFICATION SHEET

PSW

SPECIFICATIONS	PSW-G1	PSW-G2	PSW-G3	PSW-C1
Filament type	Graphitized (G)	Graphitized (G)	Graphitized (G)	Carbonized (C)
Weave type	Plain	Plain	Plain	**
Weave count:				
Warp (per cm)	17.3 - 21.3	9 - 10.6	11 - 12.6	**
Fill (per cm)	16.5 - 20.5	7.1 - 7.9	10.6 - 11.4	**
Surface density (g/m ²)	105 - 125	270 - 330	200 - 240	**
Thickness (microns)	280 - 432	675 - 825	650 - 750	**
Width (cm)	117	117	107	**

** : Available upon request

YARN FILAMENT PROPERTIES	Carbonized (C)	Graphitized (G)	FABRIC	APPLICATIONS
Diameter (microns)	7,5	7,5		
Elastic modulus (mN/cm ²) or msi	(21) or 30	(26.6) or 38	PSW-G1	Gas Diffusion Layer (PEM Fuel Cells)
Tensile strenght (kN/cm ²) or ksi	(210) or 300	(192.5) or 275		Other Electrochemical applications
Elongation at break (%)	1,0	0,72	PSW-G2	High Temp. Furnace Hardware
Cross section	Round	Round	PSW-G3	Friction (Motion Control)
Electrical resistivity (ohm/cm)	Controllable	1.1x10(-3)	PSW-C1	Ablative Insulation;
Thermal oxidative stability: (wgt.loss/hr @500°C in air)	Oxidizes	<1.0		(Solid Fuel Rocket Motors)
Density (g/cm ³)	1.72 - 1.75	1.75 - 1.77		
Surface area (g/m ²)	N/A	0,62		
Carbon Content (%)	88 - 95	99,5		