

SIOEN E1510

PVC - ELVALLOY GEOMEMBRANE

TECHNICAL DATA SHEET

09th March 2021

WIDTH	250cm
ROLL LENGTH	50m
NOMINAL WEIGHT	1000gsm
BASE FABRIC	Polyester 1100 Decitex
COATING	PVC - Elvalloy
SURFACE FINISH	Lacquer
THICKNESS	0.9mm
TEAR STRENGTH <small>WARP/WEFT</small>	500 / 400 N
TENSILE STRENGTH <small>WARP/WEFT</small>	3500 / 3500 N/5cm
BONDED SEAM STRENGTH <small>WARP/WEFT</small>	3000 / 3000 N
ABRASION (Cycles before fabric exposure)	2000 cycles
PUNCTURE RESISTANCE	1150 N
BURSTING STRENGTH (Ball tip)	2950 N
DIMENSIONAL STABILITY <small>WARP/WEFT</small>	< 1% / < 1%
ADHESION	130 N/5cm
U/V WARRANTY	10 year
TEMPERATURE RANGE	-35° (no cracking) / +70° C
HYDROSTATIC RESISTANCE	>540 N/cm ² / >8000 psi
WATER ABSORPTION (7 days / 21° C)	<0.07 kg/m ²
COEFFICIENT OF THERMAL EXPANSION/CONTRACTION	<1.8 x 10 ⁻⁵ cm/cm °C
FABRICATION METHODS	Hot Wedge, Hot Air or High Frequency Welding
FABRIC CARE	OFFPANZ Care Label OF-1

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performance textile specialists

WIGGINS

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CHEMICAL RESISTANCE CHART

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AFFF	A	GLYCERIN	A	PHENOL	X
ACETIC ACID (5%)	B	HYDRAULIC FLUID - PETROLEUM BASED	A	PHENOL FORMALDEHYDE	B
ACETIC ACID (50%)	C	HYDRAULIC FLUID - PHOSPHATE ESTER BASED	C	PHOSPHORIC ACID (50%)	A
AMMONIUM PHOSPHATE	T	HYDROCARBON TYPE II (40% AROMATIC)	C	PHOSPHORIC ACID (100%)	C
AMMONIUM SULFATE	T	HYDROCHLORIC ACID (50%)	A	PHTHALATE PLASTICIZER	C
ANTIFREEZE (ETHYLENE GLYCOL)	A	HYDROFLUORIC ACID (5%)	A	POTASSIUM CHLORIDE	T
ANIMAL OIL	A	HYDROFLUORIC ACID (50%)	A	POTASSIUM SULPHATE	T
AQUA REGIA	X	HYDROFLUOSILLIC ACID (30%)	A	RAW LINSEED OIL	A
ASTM FUEL A (100% ISO-OCTANE)	A	ISOPROPYL ALCOHOL	T	SAE-30 OIL	A
ASTM OIL #2 (FLASH Pt. 240° C)	A	IVORY SOAP	A	SALT WATER (25%)	B
ASTM OIL #3	A	JET A	A	SEA WATER	A
BENZENE	X	JP-4 JET FUEL	A	SODIUM ACETATE SOLUTION	T
CALCIUM CHLORIDE SOLUTIONS	T	JP-5 JET FUEL	A	SODIUM BISULFITE SOLUTION	T
CALCIUM HYDROXIDE	T	JP-8 JET FUEL	A	SODIUM HYDROXIDE (60%)	A
20% CHLORINE SOLUTION	A	KEROSENE	A	SODIUM PHOSPHATE	T
COLOROX	A	MAGNESIUM CHLORIDE	T	SULPHURIC ACID (50%)	A
CONC. AMMONIUM HYDROXIDE	A	MAGNESIUM HYDROXIDE	T	TANIC ACID (50%)	A
CORN OIL	A	METHANOL	A	TOLUENE	C
CRUDE OIL	A	METHYL ALCOHOL	A	TRANSFORMER OIL	A
DIESEL FUEL	A	METHYL ETHYL KETONE	X	TURPENTINE	A
ETHANOL	A	MINERAL SPIRITS	A	UREA FORMALDEHYDE	A
ETHYL ACETATE	C	NAPHTHA	A	UAN	A
ETHYL ALCOHOL	A	NITRIC ACID (5%)	B	VEGETABLE OIL	A
FERTILIZER SOLUTION	A	NITRIC ACID (50%)	C	WATER (200°F)	A
#2 FUEL OIL	A	PERCHLOROETHYLENE	C	XYLENE	X
#6 FUEL OIL	A			ZINC CHLORIDE	T
FURFURAL	X				
GASOLINE	B				

Rating Key

A - Fluid has little or no effect

B - Fluid has minor to moderate effect

C - Fluid has severe effect

T - No Data - Likely to be acceptable

X - No Data - Not likely to be acceptable

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