ISOFELT

NON-WOVEN GEOTEXTILE

DATASHEET

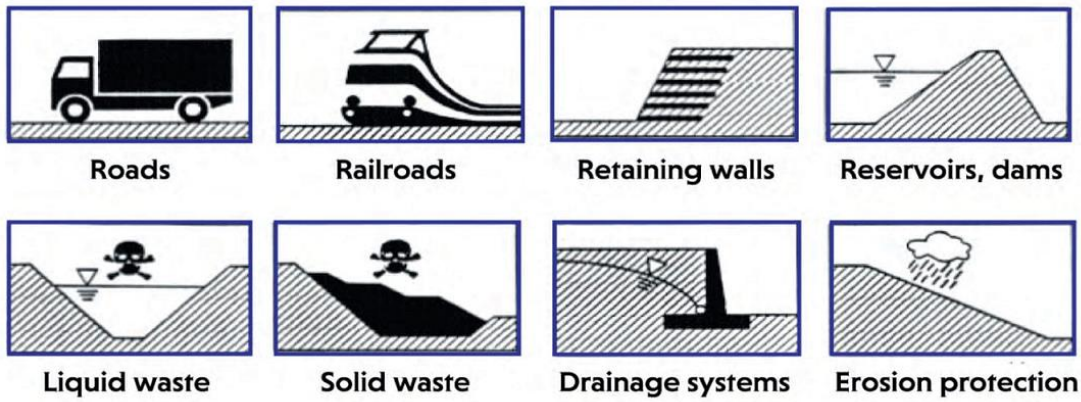
Geotextiles: Permeable textiles of synthetic fibres used in conjunction with soils or rocks as an integral part of a man-made project, structure or system.

The earliest known attempt by man to control and stabilize Earth has been by the Mesopotamians in using natural fascines for constructing ziggurats: ancient temples of learning. Today **ISOFELT** Geotextiles are used in projects worldwide to offer durable and economical solutions to Civil Engineering problems. Apart from being the largest manufacturer of non-wovens in the worldwide **ISOFELT** offers a variety of finished products viz. Needle punched, thermally stabilized and resinated geo fabrics based on end application need. **ISOFELT** Geotextiles are used for more than 80 applications in Civil Engineering which can be broadly classified as:

- Separation
- Reinforcement
- Filtration
- Drainage
- Moisture barrier (when impregnated)

ISOFELT offers both polypropylene and polyester Geotextiles which find use in roofing waterproofing membrane reinforcements: separation and reinforcement application in roads, railways, stockyards and hardstandages: protection systems in landfills, evaporation pond sand and containments: filtration and drainage applications in sub-surface drains basal drains, retaining walls, water conveyance systems: ground stabilization for embankments: erosion prevention in waterfront structures: slope erosion prevention in embankments: temporary retaining walls, asphaltic overlays: landscaping fabrics: silt fences: shoe linings/insoles: carpet backing dust filters.

APPLICATION



ISOFELT

NON - WOVEN GEOTEXTILE

	Properties	Test Method	Unit	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Functional	CBR Puncture	EN ISO 12236	N	1000	1200	1400	1800	2000	2500	2800	3200	3500	4000	4500	5100	6100	8100	10000
	Puncture Strength	ASTM D 4833	N	180	220	260	360	420	2500	550	700	850	950	1100	1200	1500	2000	2400
	Dynamic Puncrure	EN 918	mm	30	26	22	19	18	14	14	12	9	8	7	5	0	0	0
	Mullen Burst	ASTM D 3786	PSI	130	160	185	290	300	360	400	450	500	600	700	770	900	1100	1300
	Elongation at 30 % Load	EN 29073-3	%	30	30	30	30	30	30	30	30	30	30	700	35	35	35	35
	Flow Rate (10cm Head)	BS 6905 Part 3	$l/m^2/s$	240	200	190	120	100	95	90	85	75	55	50	45	40	35	30
	Permeability	ASTM D 4491	sm/s	0.35	0.32	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
	Transmissivity (2kN/ms)	ASTM D 4716	l/m/h	100	120	140	160	170	185	190	200	200	200	240	300	340	380	420
	Opening Size (095)	ASTM D 4751	micron	106	106	106	75	75	75	75	75	75	75	75	75	75	75	75
Index	Tensile - 5cm Strip (CD)	EN 29073-3	N	200	280	340	630	700	900	1100	1200	1500	1800	2000	2100	2800	3100	3800
	Tensile - 5cm Strip (MD)	EN 29073-3	N	170	235	280	380	420	520	600	700	820	850	1050	1100	1300	1700	2000
	Minimum Elongation	EN 29073-3	%	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	Grab Strength (DD)	ASTM D 4632	N	215	290	340	520	700	900	1100	1180	1500	1750	2000	2100	3000	3200	3500
	Grab Strength (MD)	ASTM D 4632	N	190	250	300	400	470	600	700	800	930	1000	1150	1200	1500	1800	2100
	Min. Grab Elongation	ASTM D 4632	%	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
	Trapezoidal Tear (CD)	ASTM D 4533	N	110	140	160	250	340	430	500	530	580	900	900	1000	1200	1500	1800
	Trapezoidal Tear (MD)	ASTM D 4533	N	100	120	140	180	200	250	280	300	350	400	450	500	350	800	1000
Physical	Thickness ($2kN/M^2$)	ASTM D 5199	mm	1.4	16	1.8	2.2	2.5	2.7	3.0	3.2	3.5	3.8	4.2	4.7	5.2	7.0	8.5
	Mass Per Unit Area	ASTM D 5261	g/m^2	100	120	140	180	200	250	380	300	350	400	450	500	600	800	10000
	Roll Size (W x L)		m	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 50	3 x 50

Values reported in this data sheet are indicative average results obtained in our laboratory and independent testing laboratories. The right is reserved to make changes at any time without notice