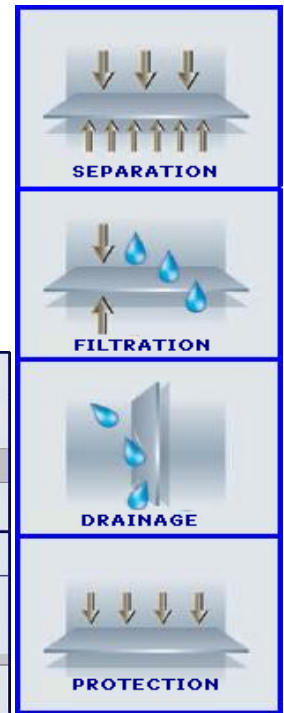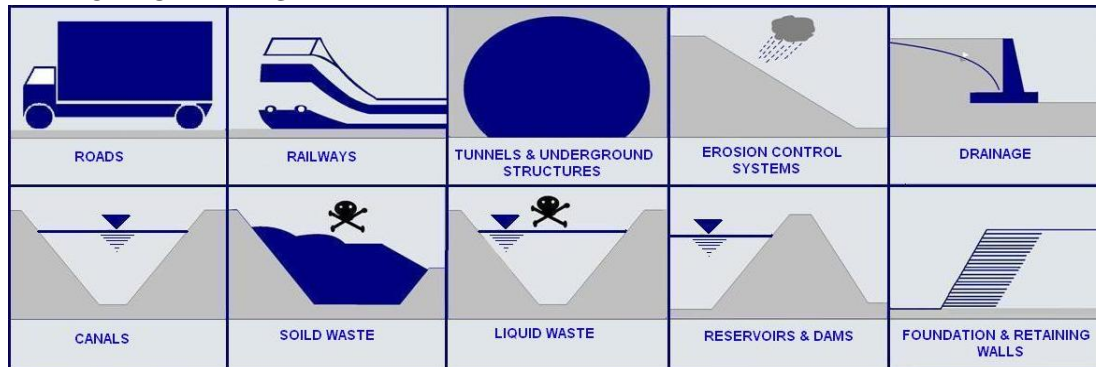**FUNCTIONS**

ALYAF XS25

Product Data Sheet -

XS Range

ALYAF XS25 is a nonwoven geotextile made from staple fibers mechanically bonded by a needle punching and thermally bonded process to produce a dimensionally stable network. The fibers used are 100% polypropylene ultra-violet stabilized. ALYAF geotextiles are manufactured according quality system procedures certified under EN ISO 9001:2008.

APPLICATION AREAS:

ROADS	RAILWAYS	TUNNELS & UNDERGROUND STRUCTURES	EROSION CONTROL SYSTEMS	DRAINAGE
CANALS	SOILD WASTE	LIQUID WASTE	RESERVOIRS & DAMS	FOUNDATION & RETAINING WALLS

SEPARATION

FILTRATION

DRAINAGE

PROTECTION

Properties		Test Method	Unit	Value
Tensile Strength	CD	EN ISO 10319	kN/m	12
Tensile Strength	MD	EN ISO 10319	kN/m	12
Elongation at break	CD / MD	EN ISO 10319	%	50 / 45
CBR Puncture		EN ISO 12236	N	2000
Dynamic Puncture		EN ISO 13433	mm	25
Permeability		EN ISO 11058	$10^{-3}ms^{-1}$	85
Flow rate normal to the plane		EN ISO 11058	$l/m^2/sec$	85
Opening Size (O_{90})		EN ISO 12956	microns	80
Thickness under 2kPa		EN ISO 9863-1	mm	1.25
Mass Per Unit Area		EN ISO 9864	g/m^2	150
Roll width		Nominal	m	6
Roll length		Nominal	m	200

Notes:

▶ ALYAF geotextiles are non-biodegradable, have excellent resistance to chemicals and salts normally present in the soil.

▶ ALYAF geotextiles have excellent UV resistance and exhibit strength retention of 70% on test for weathering resistance to EN 12224.

▶ Values reported in this data sheet are the average results obtained in our laboratory and Independent testing institutions and are subject to manufacturing tolerances.

▶ The property values listed above are effective September 2014

▶ Engineered grades to meet specific project requirements are available upon request.

▶ Properties optimization and practical experience can make revisions necessary, the right is reserved to make changes without prior notice.

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