



FUNCTIONS

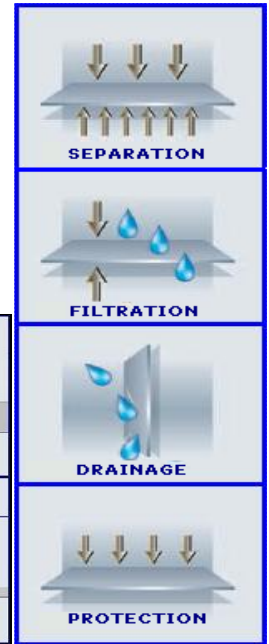
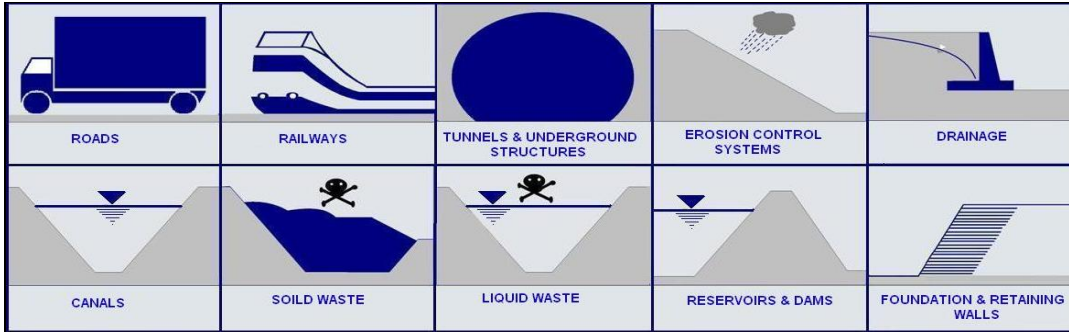
ALYAF A221

Product Data Sheet -

A1 Range

ALYAF A221 is a nonwoven geotextile made from staple fibers, mechanically bonded by a needle punching process to produce a dimensionally stable network. The fibers used are 100% white polyester, ultra-violet resistant with 256°C melting point. ALYAF geotextiles are manufactured according to Quality System procedures that have been assessed and certified in accordance to EN ISO 9001:2008.

APPLICATION AREAS:



Properties	Test Method	Unit	Value
Tensile Strength (CD)	EN ISO 10319	kN/m	5.4
Tensile Strength (MD)	EN ISO 10319	kN/m	4.5
Elongation at break (CD / MD)	EN ISO 10319	%	60 / 50
CBR Puncture	EN ISO 12236	N	880
Dynamic Puncture	EN ISO 13433	mm	30
Permeability	EN ISO 11058	$10^{-3}ms^{-1}$	90
Flow rate normal to the plane	EN ISO 11058	$l/m^2/sec$	90
Opening Size (O_{90})	EN ISO 12956	microns	106
Thickness under 2kPa	EN ISO 9863-1	mm	1.60
Mass Per Unit Area	EN ISO 9864	g/m^2	120
Roll Width	Nominal	meters	3
Roll Length	Nominal	meters	200

Notes:

- ▶ ALYAF geotextiles are non-biodegradable, have excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with hydrocarbon such as gasoline and deisel.
- ▶ 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 April'2015.
- ▶ 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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www.alyaf.com

info@alyaf.com

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Rev. 09 April'2015. Geospec- A1_EN