Madritex®

The present standard establishes the technical quality conditions, environmental requirements, sampling conditions, storage conditions, as well as other explanations necessary for producing **Madritex** nonwoven geotextiles obtained from propylene fibre mixed with polyester fibre.

APPLICATION DOMAIN
The product has applications in the domain of civil and industrial engineering, according to the table below.

SHIPPING AND STORAGE REQUIREMENTS
The material shall be transported by clean, covered means of transportation, protected from moisture and dirt.
The material shall be stored in closed spaces, protected from UV, away from water, steam and other types of pipes.

TECHNICAL QUALITY CONDITIONS
Madritex geotextiles must accomplish the quality conditions from the table below:

Physical-mechanical properties

Properties	Unit	Standard	Scheduled values and accepted tolerances					
Mass	gr/m^2	EN 965:1995	$150^{\pm10\%}$	$200^{\pm10\%}$	$250^{\pm10\%}$	$300^{\pm10\%}$	$400^{\pm10\%}$	$500^{\pm10\%}$
Thickness under the load of 2 kN/m^2	mm	EN 964-1:1995	$2,3^{\pm0.2}$	$2,7^{\pm0.2}$	$3^{\pm0.2}$	$3,4^{\pm0.3}$	$4^{\pm0.4}$	$4,3^{\pm0.4}$
Thickness under the load of 20 kN/m^2	mm	EN 964-1:1995	$1,4^{\pm0.2}$	$1,7^{\pm0.2}$	$2^{\pm0.2}$	$2,3^{\pm0.3}$	$2,7^{\pm0.4}$	$2,8^{\pm0.4}$
Tear resistance, longitudinal	kN/m	SR ISO 10319:1997	$4,5^{-0,3}$	$6,5^{-0,6}$	$8,5^{-0,8}$	$12^{-1,5}$	$15^{-1,5}$	17^{-2}
Tear resistance, transversal	kN/m	SR ISO 10319:1997	10^{-1}	$14^{-1,5}$	18^{-2}	22^{-2}	31^{-3}	38^{-4}
Elongation at break, longitudinal	%	SR ISO 10319:1997	$85^{\pm20\%}$	$85^{\pm20\%}$	$85^{\pm20\%}$	$85^{\pm20\%}$	$85^{\pm20\%}$	$85^{\pm20\%}$
Elongation at break, transversal	%	SR ISO 10319:1997	$75^{\pm20\%}$	$75^{\pm20\%}$	$75^{\pm20\%}$	$75^{\pm20\%}$	$75^{\pm20\%}$	$55^{\pm20\%}$
CBR puncture	N	SR EN ISO 12236:07	1000^{-100}	1450^{-150}	2100^{-200}	2500^{-250}	3300^{-300}	4000^{-400}
Width	m	STAS 6137-78	1-5,4	1-5,4	1-5,4	1-5,4	1-5,4	1-5,4

Hydric properties

Properties	Unit	Standard	150	200	250	300	400	500
V-Index 20°C	mm/s	SR EN ISO 11058:02	$110^{\pm10}$	$105^{\pm10}$	$80^{\pm10}$	$70^{\pm10}$	$50^{\pm10}$	$45^{\pm10}$
Flow	l/m^2 s	SR EN ISO 11058:02	$110^{\pm10}$	$105^{\pm10}$	$80^{\pm10}$	$70^{\pm10}$	$50^{\pm10}$	$45^{\pm10}$
Pore dimension	microns	EN ISO 12956:1999	$250^{\pm20}$	$200^{\pm20}$	$180^{\pm20}$	$120^{\pm20}$	$90^{\pm20}$	$70^{\pm20}$
Permeability k-Index at 20°C	m x 10^{-3}/s	SR EN ISO 11058:02	$5,8^{-0,6}$	$5,3^{-0,6}$	$4,8^{-0,6}$	$4,1^{-0,6}$	$3,8^{-0,6}$	$3,3^{-0,6}$
Permeability k-Index at 10°C	m x 10^{-3}/s	SR EN ISO 11058:02	$4,5^{-0,6}$	$4,3^{-0,6}$	$4^{-0,6}$	$3,4^{-0,6}$	$3^{-0,6}$	$2,5^{-0,6}$

SAMPLING, PACKAGING, STORAGE AND DELIVERY PACKAGE
Each lot shall contain a declaration of conformity and other documents, according to the laws in force.
Each roll shall be sampled in a visible place with a label containing: the name of the provider, article name, product width (m), roll length (m), operator number, shift, technical control of quality visa (CTC visa) , production date, weight (kg).
Given the way in which it was obtained and in which it is used, this article does not affect life protection, work protection and security. Therefore, a certificate issued by a neuter institution authorized in the domain is not necessary.

ENVIRONMENTAL AND INSTALLING REQUIREMENTS
To be covered with in 24 hours from installation. The supposed durability is of minimum 20 years, for other applications except reinforcement, in natural soils with 4<pH <9 and a temperature of <25°C.

PRODUCT RECEIPT
The term of acceptance and of formulating eventual complaints is within 5 days after receipt of the wares.

Application domain

Article name	Role in the work
Madritex 150	F; F+S; F+D; F+S+D; D
Madritex 200	F; F+S; F+D; F+S+D; S; D
Madritex 250	F; F+S; F+D; F+S+D; S; D
Madritex 300	F; F+S; F+D; F+S+D; S; D
Madritex 400	F; F+R; P; S; F+S; R
Madritex 500	P; R; F; S; F+R+S

Legend:
F - Filtration / D - Drainage / S - Separation / R - Reinforcement / P - Protection

We are not liable for eventual damages caused by the incorrect putting into work of the geotextile or if the beneficiary uses a geotextile inadequate for the purpose of the work.
We reserve the right to modify the technical data without prior notice.