



SINCE  
1950

# GEOSORP

Sorption textile



1021 - CPR – 100-1/17



STANDARD  
100

PG035 217550  
OETI



- Characteristic:** Nonwoven textile mechanically bonded by needle punching
- Material content:** 100% Polypropylen
- Color:** Multicolor
- Weight:** 300 - 500 g/m<sup>2</sup>
- Maximum width:** 6,5 m
- Function:**



SEPARATION



FILTRATION



REINFORCEMENT



SORPTION

### Use:

ROADS AND OTHER TRAFFICKED AREAS  EN 13249:2016	RAILWAYS  EN 13250:2016	EARTHWORKS, FOUNDATIONS, AND RETAINING WALLS  EN 13251:2016	DRAINAGE SYSTEMS  EN 13252:2016	EROSION CONTROL  EN 13253:2016
RESERVOIRS AND DAMS  EN 13254:2016	CANALS  EN 13255:2016	TUNNELS AND UNDERGROUND STRUCTURES  EN 13256:2016	SOLID WASTE DISPOSALS  EN 13257:2016	LIQUID WASTE CONTAINMENT  EN 13265:2016

Material specification sheet

Date: 1.4.2023

Quality Management System ISO 9001, ISO 14001, ISO 45001 a ISO 50001

SINCE  
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# TRADITIONAL QUALITY NONWOVENS

Material specification sheet

Date: 1.4.2023

## GEOSORP

Sorption textile

GEOSORP		300	400	500
<b>PHYSICAL PROPERTIES</b>				
Weight [ $\pm 15$ %] / EN ISO 9864	g/m <sup>2</sup>	300	400	500
Thickness 2 kPa [ $\pm 15$ %] / EN ISO 9863-1	mm	3,3	3,9	4,3
<b>MECHANICAL PROPERTIES</b>				
Tensile strenght / EN ISO 10319	MD	16 -1	19-1	21 -1
	CMD	16-1	19 -1	21 -1
Elongation [ $\pm 20$ %] / EN ISO 10319	MD	90	90	95
	CMD	90	90	90
Resistance to static puncture (CBR test) / EN ISO 12236	kN	2,3 -0,2	3,0 -0,2	3,5 -0,2
Dynamic perforation test (cone drop test) / EN ISO 13433	mm	6 +3	5 +2	4 +2
<b>SORPTION PROPERTIES</b>				
Liquid absorption / ČSN EN ISO 9073-6 (Motor oil 10W-40)	%	980 $\pm$ 41	949 $\pm$ 21	743 $\pm$ 14
Sorption capacity / ASTM F726-00 part 9.3	g/g	13,6	13,4	10,3
Motor Oil 10W-40	%	1359	1339	1034
<b>HYDRAULIC PROPERTIES</b>				
Characteristic opening size 090 / EN ISO 12956	$\mu$ m	85 $\pm$ 15	79 $\pm$ 15	79 $\pm$ 15
Water permeability normal to the plane VIH50 / EN ISO 11058	l/m <sup>2</sup> .s	67,1 -20	36,1 -20	36,1 -20
<b>ENDURANCE</b>				
Resistance to oxidation [ $\pm 50$ %] / EN ISO 13438	MD	92,7	92,7	92,7
	CMD	94,5	94,5	94,5
Color:	Cover on day after being placed			
Life expectancy	Min. 25 years in natural soils with 4<pH<9 with soil temperature < 25 °C.			
<b>FUNCTION</b>				
Function:	S	X	X	X
Filtration	F	X	X	X
Drainage	D			
Reinforcement	R	X	X	X
Protection	P			
<b>CHARACTERISTICS</b>				
Description	Nonwoven textile mechanically bonded by needle punching			
Material content	100 % polypropylen			
Color	Multicolour			
<b>DIMENSION, PACKAGING AND STORAGE</b>				
Roll width	m	6,5	6,5	6,5
Roll lenght	m	50	50	50
Packaging	Rolls are packed in PE foil, and according to the requirements can be wind up on paper tubes			
Storage	In covered, clean and dry spaces			

The above technical parameters are average values and serve for general information. The manufacturer reserves the right to change it.