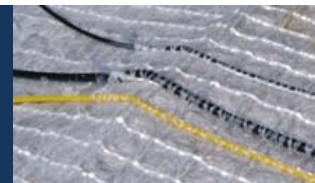


# GeoDetect® S – BR

## Technical Data

TenCate GeoDetect® is a composite textile based fiber optics sensing solution for monitoring and early warning geotechnical works.



TenCate GeoDetect® S - BR

<b>GeoDetect® S - BR</b>			
<b>Textile composite strip</b>			
<b>Tensile Strength</b> EN ISO 10319	kN/m	MD CD	58 13
<b>Elongation at maximum strength</b> EN ISO 10319	%	MD CD	11,5 85
<b>Tensile strength at 2% strain</b> EN ISO 10319	kN/m	MD	11,5
<b>Tensile strength at 5% strain</b> EN ISO 10319	kN/m	MD	22,1
<b>Friction properties in contact with sand (φ : 40°)</b> EN ISO 12957-1	Degrees		30°
<b>Puncture resistance (CBR)</b> EN ISO 12236	kN		2,7
<b>In-the plane water flow capacity</b> EN ISO 12958	m <sup>3</sup> /s/m	20 kPa	20 10 <sup>-7</sup>
<b>Weight per unit area</b> (without optical cables)	g/m <sup>2</sup>		310
<b>Weight per unit area of the nonwoven</b> EN ISO 9864	g/m <sup>2</sup>		200
<b>Thickness</b> (without optical cables)	mm	2 kPa	2,2
<b>Standard width</b> (other width on demand)	m		1
<b>Length</b> (on demand)	m		100 to 600 m
<b>Optical cables</b> (number and types adjustable on demand)			
<b>Minimum diameter</b>	mm		2
<b>Minimum strain detection</b>	%		0,01
<b>Number of tight buffered single mode cable</b>			2
<b>Number of loose tube with one multimode and one single mode fiber</b>			1 (2)
<b>Connection to the textile</b>			Rachel (tight) knitting yarn

The values given are average values obtained in our laboratory and in accredited testing institutes. The information given in this datasheet is to the best of our knowledge true and correct. However new research results and practical experience can make revision necessary. The right is reserved to make changes without notice at any time. No guarantee or liability can be drawn from the information mentioned herein.

MD : Machine direction, also direction of the optical cables  
CD : Cross direction

Other forms of supply as well as grades, adjusted to the requirements of the project, are available on request.

GeoDetect® is a TenCate trademark and patented solution. Copyright© TenCate.

Edition 10/07/2009