

# DECLARATION OF PERFORMANCE



N°: COLETANCHE ES4 NH 008 EN

- 1. Identification code** COLETANCHE ES4
- 2. Intended use**  
 Geosynthetic barriers use in the construction of reservoirs and dams  
 Geosynthetic barriers use in the construction of canals  
 Geosynthetic barriers use as a fluid barrier in the construction of tunnels and underground structures  
 Geosynthetic barriers use as a fluid barrier in the construction of liquid waste disposal sites or transfer sites  
 Geosynthetic barriers use in the construction of solid waste storage and disposal sites  
 Geosynthetic barriers use in transportation infrastructure
- 3. Manufacturer**  
 AXTER SAS  
 143, avenue de Verdun  
 92130 Issy-les-Moulineaux  
 France  
 www.axter.eu/dop
- 4. Authorised representative** NA
- 5. System of assessment and verification of constancy of performance of the product** System 2+
- 6a. Product covered by the harmonised standard:** EN 13361, EN 13362, EN 13491, EN 13492, EN 13493, EN 15382  
 The ASQUAL, notify body n° 0334 has performed under system 2+ the initial inspection of factory production control the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control n° 0334 - CPR - 0011.
- 6b. European Technical Assessment :** NA
- 7. Declared performance**

| Essential characteristics                  |                                    |                       | Performance |           |   | Harmonised technical specification   |       |
|--|------------------------------------|-----------------------|-------------|-----------|---|--|-------|
|  |                                    |                       | Value       | Tolerance |   |  | Units |
|  |                                    |                       |             | Min       | Max                                     |  |       |
| Tensile properties : maximum tensile force | Longitudinal                       | 1600                  | 1150        |           | N/50 mm                                 | EN 13361:2005/A1:2006<br>EN 13362:2006<br>EN 13491:2005/A1:2006<br>EN 13492:2005/A1:2006<br>EN 13493:2006<br>EN 15382:2013 |       |
|  | Cross direction                    | 1400                  | 1000        |           |   |  |       |
| Tensile properties : elongation            | Longitudinal                       | 45                    | 30          |           | %                                       |  |       |
|  | Cross direction                    | 45                    | 30          |           |   |  |       |
| Static puncture test (CBR test)            | Resistance                         | 4                     | 3,5         |           | kN                                      |  |       |
|  | Move                               | 50                    | 40          |           | mm                                      |  |       |
| Permeability to liquids                    |                                    | < 1.10 <sup>-6</sup>  |             |           | m <sup>3</sup> /m <sup>2</sup> /j       |  |       |
| Resistance to oxidation                    | Residual value of tensile strength | Maximum tensile force | 100         | 75        |   |  | %     |
|  |                                    | Elongation            | 100         | 75        |   |  |       |
| Resistance to weathering                   |                                    | Maximum tensile force | 100         | 75        |   |  | %     |
|  |                                    | Elongation            | 100         | 75        |   |  |       |
| Dangerous substances                       |                                    | Note 1 and 2          |             |           | -                                       |  |       |
| Gas Permeability                           |                                    | < 2.10 <sup>-4</sup>  |             |           | m <sup>3</sup> /(m <sup>2</sup> .j.atm) | EN 13492:2005/A1:2006<br>EN 13493:2006   |       |

NA: not applicable due to use of product.

Note 1 : This product does not contain asbestos or tar constituents

Note 2 : In the absence of European harmonized test methods, verification and declaration on release/content has to be done taking into account national provisions in the place of use.

The performances of the product identified above are in conformity with the declared performances.

In accordance with Regulation (UE)n°305/2011 , this declaration of performance is issued under the sole responsibility of the manufacturer identified above

Signed for and on behalf of the manufacturer by:  
 Peter Fleischmann (Managing Director)

Paris  
 09/10/2018

