



## SP-6™ UNBONDED OUTERWRAP

**“Non-Shielding” Outerwrap for Soil Stress Resistance**

### DESCRIPTION:

**POLYGUARD SP-6™ UNBONDED OUTERWRAP** is an integral part of the **RD-6® Coating System**. It consists of a strong non woven, felt-like polypropylene fabric. The product is engineered to provide high bursting strength and low tensile and elongation properties. The result is an outerwrap with improved soil stress resistance.



*SP-6™ will reduce the deformation of corrosion coating systems caused by soil stress. It acts as a slip plane to relieve soil stress.*

**SP-6™ UNBONDED OUTERWRAP** provides the following performance properties:

| Design Feature   | Engineering Purpose   |
|--|---|
| <i>There is <u>no adhesive</u> on the surfaces of either side of the fabric.</i>     | For years, the pipeline coating industry relied upon bonded outerwraps.<br><br>However, permanent adhesion of the outerwrap to the corrosion coating underneath is not desired. Quite the opposite. The fabric when unbonded has the freedom to be moved by the forces of soil stress, independently of the coating over which it has been applied. If the fabric of the outerwrap had been bonded to the coating underneath, the soil stresses would be transferred to the corrosion coating underneath, and could cause deformation of the corrosion coating. |
| <i>The fabric permits water and cathodic protection currents to pass through it.</i> | This porous property keeps the outerwrap from contributing to the cathodic protection shielding problem. Solid film back corrosion coatings and outerwraps have been proven to shield ( <i>block</i> ) the passage of protective currents.  |

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This information is based on our best knowledge, but POLYGUARD cannot guarantee the results to be obtained.



Polyguard is ISO 9001 certified since 1996.

## **USES:**

**POLYGUARD SP-6™** is the outerwrap for use over **POLYGUARD RD-6®**. It is an integral part of the "non-shielding" and soil stress resistant **RD-6 Coating system**. It can of course be used over any other coating to provide non-shielding soil stress resistance.

## **TECHNICAL DATA:**

Typical properties of the **SP-6™** non-woven fabric are:

| <b>Property</b>         | <b>ASTM Test Method</b> | <b>Results - English</b> | <b>Results – Metric</b> |
|-------------------------|-------------------------|--------------------------|-------------------------|
| Weight                  | D 5261                  | 4.1 oz / yd <sup>2</sup> | 140 g/m <sup>2</sup>    |
| Tensile Strength – Grab | D 4632                  | 102 lbs.                 | 0.45 KN                 |
| Elongation              | D 4632                  | 50%                      | 50%                     |
| Burst Strength – Mullen | D 3786                  | 200 PSI                  | 1378 kPa                |
| Thickness               | D 1000                  | .027"                    | .69mm                   |
| Permittivity            | D 4491                  | 2.5 sec. -1              | 2.5 sec. -1             |

## **PRECAUTIONS:**

This material is sold by **Polyguard Products, Inc.** only for the purposes described in this literature. Any other use of the products is the responsibility of the purchaser and **Polyguard Products** does not warrant nor will be responsible for any misuse of these products. **Polyguard Products** will replace material not meeting our published specifications within one year from date of sale.

## **HEALTH AND SAFETY:**

All **Polyguard Products** Safety Data Sheets (SDS) and precautionary labels should be read and understood by all user supervisory personnel and employees before using. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use, health, safety, and disposal of the product.

## **MAINTENANCE:**

None required.

## **TECHNICAL SERVICE:**

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