



VARZIRAN CO. (P.J.S.)

Product Data Sheet

Product Name: Bituseal® Outerwrap

Standard: EN 10300
Type F

Product Description

Bituseal® Outer Wrap is semi-woven glass fiber reinforced fabric impregnated with a polymer-modified bitumen. It is impregnated in order to ensure optimum protection of the fibers. The impregnation is performed so that “bleed-through” is controlled during the pipe coating process.

Bituseal® Outer Wrap is offered in a Standard and Heavy Duty version in order to fulfill customer’s exact requirements.

The product is manufactured to an exact degree of porosity which promotes effective adhesion between the outer-Wrap and enamel. Bituseal® Outer Wrap comprises a laminate of strong glass fabric bonded to a light glass/polyester tissue. The yarn fabric comprises both longitudinally and transverse reinforcing threads. This type of Outer Wrap is suitable for most soil conditions.

Delivery

Bituseal® Outer Wrap is supplied in customized widths and lengths. After production the product is placed on pallets and packed in shrink film, thus allowing easy transport of the material.

Application

Bituseal® Enamel is applied to steel pipes, previously primed with Bituseal® Primer, at 190-230°C using computer controlled extrusion technology, which ensures optimum coating quality. Bituseal® Outer Wrap is applied over the still hot and liquid Bituseal® Enamel. Application must take place so that folds and air pockets are avoided and adhesion to the underlying enamel is ensured.

Storage

Bituseal® Outer Wrap is stored upright on a dry surface. The product should not be exposed to direct sunlight and maximum storage height is 2.50 m.

Standards

Bituseal® Outer Wrap meets or exceeds all international specifications for bitumen-based pipeline coating and meets the requirements for outer-Wraps EN 10300, type F.

Quality Control

All raw materials for Bituseal® Outer Wrap is tested and approved in the laboratory of Varziran. The quality of the finished outer-Wrap is controlled in accordance with related

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standard or customer's specific requirements and a test certificate is provided for each batch produced.

Bituseal® Coatings

Bituseal® Outer Wrap is suitable for pipelines operating at temperatures in the range -20°C to 90°C and provides a highly protective coating and excellent in-service performance. Bituseal® Outer Wrap is environmentally safe and contains no harmful components.

Technical Data			
Properties	Unit	Requirement	Method of test
Mass per area of base glass/carrier	gr /m²	Min 110	EN 10300, Annex M
Type of base glass/carrier	---	Composite glass/ Polyester fibre	---
Mass per area	gr /m²	Min 450	EN 10300, Annex M
Thickness	mm	Min 0.6	EN 1849-1
Tensile Strength			EN 12311-1 modified as in Annex N of EN 10300
-- Longitudinal	N/50mm	Min 800	
-- Transverse	N/50mm	Min 800	

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