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# BIL BARRIER FOIL POUCHES

## Protecting Medical Devices and Diagnostic Products

### Product Information BIL 500 Aluminium Finish

#### 1. Product Description:

BIL barrier foil #500 is a high performance Barrier Foil Pouch fabricated from large rolls machine cut to size into individual flat pouches with and without seal closures, and pouched gusset bags. They are heat sealed with one end open with and without flaps. The barrier foil is constructed with an overall foil thickness of 103 ( $\mu$ ) microns by laminating together 3 layers. The outside layer has 12 microns polyester which gives it strength, an inner moisture proof layer of 8 microns of aluminium foil which is the water vapour barrier and finally an inner layer of 80 microns of white HDPE which provides the heat sealing surface. The net result of the material's construction is a flexible barrier with the lowest known water vapour transmission rate.

#### 2. Construction:

12 $\mu$	PET Bonding Layer
8 $\mu$	Aluminium Foil Bonding Layer
80 $\mu$	LLDPE

#### 3. Product Classifications:

BgVV/FDA Qualification:	Material in accordance with:
Polyester           BgVV XV11	FDA21 CFR§ 177.1630
Laminating Glue   BgVV XXV11	FDA21 CFR§ 175.105
Aluminium Foil    Regarded as physiologically harmless	
Polyethylene	FDA21 CFR§ 177.1520/1350

#### 4. Typical Values & Performance Properties:

<u>Parameters:</u>	<u>Value</u>	<u>Units</u>	<u>Tolerance</u>	<u>Method</u>
Total thickness:	103	$\mu$	+/-10%	DIN 53370
Weight / m <sup>2</sup>	121 nominal	g / m <sup>2</sup>	+/-10%	ISO 536
Water Vapour transmission:	<0.05	gm / m <sup>2</sup> / 24hrs		
Oxygen Transmission	0.001	cc / m <sup>2</sup> / 24hrs		
Sealing Conditions	180°C / 2 seconds			
Colour	Aluminium			
Text:	Blank / or indelible printing in one colour			
Dimensions:	As agreed on case by case basis			

## **5. Recommended Applications:**

Primarily used for protection of Food, Pharmaceuticals, Vitamins, Diagnostics Kits, Medical Devices, Healthcare Products, Chemicals, Chemical Intermediates, Plastics, Pigments, etc. and generally where products need to be protected from the formation of bacterial growth, mould, and mildew. Whilst maintaining product integrity, stability and extending shelf-life for complete climatic protection. And generally used in conjunction with Desiccants, such as Silica Gel, Molecular Sieves, Activated Carbon, and Speciality Adsorbers for nuisance molecules such as O<sub>2</sub>, CO<sub>2</sub>, Ethylene, Formaldehyde, etc.

## **6. Packaging Information:**

In strong cardboard outer cartons, identified with description, component number, date of fabrication, batch #, and quantity.

## **7. Storage Recommendations:**

Storage under normal conditions of temperature, humidity and pressure in a dry warehouse is recommended.

## **8. Other Information:**

We hope the information given here will be helpful. It is based on data and knowledge, which we believe to be true and accurate and is offered for the user's consideration, investigation and verification. Accordingly, save in the event of gross negligence or wilful misconduct of our agents and ourselves we will not be liable for any damages resulting from errors, omissions or non-compliance of the information set forth herein. Further, please read all statements, recommendations or suggestions in conjunction with our General Conditions of Delivery, Performance and Payment, which limit our liability with respect to all goods, supplied by us. Test methods are available on request.