



ALUMAGUARD® LITE

Alumaguard® Lite is **Polyguard's** latest addition to our **Alumaguard** Family of Products. **Alumaguard Lite** was conceived as an alternative to **Alumaguard** on the bottom of ductwork to alleviate sagging of the heavier rubberized asphalt based product. **Alumaguard Lite** is available in the following configurations;

- Smooth Aluminum
- Stucco Embossed Aluminum
- Smooth SuperWhite (aluminum inside)

Alumaguard Lite is a high strength, 5 ply natural aluminum and PET laminated film available in either silver or white. We replaced the rubberized asphalt of standard **Alumaguard** with a low temperature acrylic adhesive. It is available in standard sizes, 3" and 36" widths x 150' lengths (23" wide is a special order size). It is now also available in fabricator sizes 23" and 36" x 500' and 1000' without adhesive for factory applied uses.



With continued improvements, Indoor or outdoor installation is now a reality (white is not recommended outdoors) due increases in product strength and an ASTM E-84 flame/smoke rating. **Alumaguard® Lite** can now be used on piping and duct systems where light mechanical abuse is expected, it improves on other 'light' laminated products in the market

Alumaguard Lite makes it unnecessary to pin through standard **Alumaguard** on the bottom of duct, a labor saving feature. **Alumaguard Lite** is perfect for any interior or exterior system.

We do not advise the use of an acrylic adhesive based product on insulation systems such as Ammonia refrigeration, brine, or glycol. Chilled water systems and hotter are the perfect systems. On colder systems where expansion and contraction are an issue, the rubberized asphalt backed **Alumaguard** is the best product as it will expand and contract without losing it's adhesion to the substrate as an acrylic adhesive product can possibly do.

USES:

- Chilled Water Piping
- Exterior Duct Work
- Interior Duct Work
- Mechanical Rooms
- Indoor Piping Systems
- Process Piping
- Unconditioned Space



ALUMAGUARD LITE™ SILVER

PROPERTY	TEST METHOD USED	RESULTS	
Adhesive Peel Strength	PSTC-101	62.40 oz/in	17.1 N/25mm
Peel Adhesion (Overlap Bond) @ -15°F	ASTM D-1000	1.24 lb/in	0.22 kg/cm
Peel Adhesion (Overlap Bond) after 24 hrs	ASTM D-1000	5.50 lb/in	0.98 kg/cm
WVTR (gr/100 in ² 24hrs 100°F 90%RH)	ASTM E-96-E	0.00 perms	
Mold & Mildew Resistance	ASTM C-1338	Pass	
Breaking Strength	PSTC-131	80.9 lbs/in width	354 N/25mm
Puncture Resistance	ASTM D-1000	48.7 lbs	216.6 N
Tear Strength – die C (lb/in)	ASTM D-624	900.0 lb/in	3939 N/25mm
Thickness of membrane	micrometer	7 mils	177.8 microns
Flame/Smoke	ASTM E-84	MEETS 25/50	

ALUMAGUARD LITE™ WHITE

PROPERTY	TEST METHOD USED	RESULTS	
Adhesive Peel Strength	PSTC-101	71.4 oz/in	19.5 N/25mm
Peel Adhesion (Overlap Bond) @ -15°F	ASTM D-1000	1.72 lb/in	0.31 kg/cm
Peel Adhesion (Overlap Bond) after 24 hrs	ASTM D-1000	2.76 lb/in	0.49 kg/cm
WVTR (gr/100 in ² 24hrs 100°F 90%RH)	ASTM E-96-E	0.00 perms	
Mold & Mildew Resistance	ASTM C-1338	Pass	
Breaking Strength	PSTC-131	83.2 lbs/in width	364.3 N/25mm
Puncture Resistance	ASTM D-1000	45.5 lb	202.4 N
Tear Strength – die C (lb/in)	ASTM D-624	685.7 lb/in	3002 N/ 25mm
Elongation at Break	ASTM D-412	142%	
Thickness of membrane	micrometer	4.9 mils	124.5 microns
Flame/Smoke	ASTM E-84	MEETS 25/50	