LAMART CALIFORNIA
Aerospace Solutions

ORCON

PRODUCT BROCHURE

WHO WE ARE

Effective March 2017 Lamart Corporation acquired certain assets of Orcon Corporation including the BOCS (Bond Oriented Continuous Strand) machine, Orcotek product line, Orcotape®, Orcofilm® marrying those products with the Lamaguard™ product line to create the industry's leader in highly engineered aerospace products.

Founded in 1962 by textile industry veterans, Orcon revolutionized thermal/acoustic insulation technology by developing stronger, lighter insulation films and tapes for the aerospace industry. Now, Lamart California's pioneering BOCS (Bond Oriented Continuous Strand) technology reduces weight and improves strength of reinforced films by fully integrating the yarns in to the substrate material without using excessive adhesive. With more than 50 years of experience in supplying the aerospace industry with thermal/acoustic insulation systems, materials and components, Lamart California is a leading supplier of lightweight reinforced covering films and pressure-sensitive tapes, all of which meet the stringent FAR 25.856(a) flame propagation requirements established in late 2005. Lamart California is one of the world's largest manufacturers of aerospace fabricated products, providing insulation systems for Commercial and Military Transport Aircraft, Regional Jets and Business Aircraft.

OUR MARKETS

- Aerospace
- Space/Satellite
- Military
- Custom Converting

WHAT WE DO

The Lamart California engineering team can support your custom projects, including:

- Generating CAD (AutoCAD or CATIA V5) drawings.
- Program Management for an STC/PMA project.
- FAA Flammability Testing.
- Engineering consult on design for your application.
- Build-to-Print Engineering review.
- Material analysis & recommendations.
- On-site Liaison Engineering Support.
- Structure & Blanket measurements.

The Lamart California blanket fabrication process is highly automated and versatile, utilizing a CAD/CAM system to ensure quality products, exact dimensions, timely support of lead times, and repeatable results. The process and experience of the Lamart California Engineering Team allows customers to provide data in multiple forms (drawings, work instructions, actual blankets) and media (CD, EDI, etc.), all of which can be interpreted to ensure satisfaction of our customer's objective. For a full description of all services Lamart provides, see www.lamartcorp.com.

OUR PRODUCTS

- ORCOTAPE® - lightweight reinforced pressure-sensitive tapes used for fabrication and repair of thermal/acoustic bags and blankets and aircraft carpet installation
- ORCOFILM® - lightweight reinforced insulation covering films were specifically designed for fabrication of thermal/ acoustic insulation bags and blankets
- ORCOTEK® Strip Blanket - replacement for wet or damaged insulation blankets
- Airframe Insulation Kits
- Dryliner™
- Military – insulation products for various military aircraft platforms
- Space Insulation Films

OUR TECHNOLOGIES

- Slitting - providing slit width capabilities
- Die Cutting - rotary
- Hot Nip laminating
- Quilting
- Plotting/Cutting CAD/CAM
- Kitting
- Contract Packaging
- Seaming/Sealing

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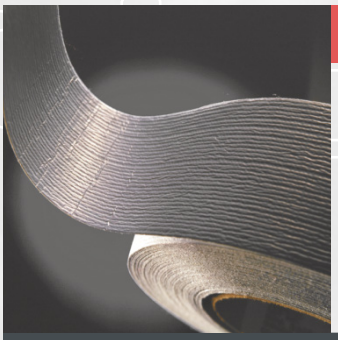
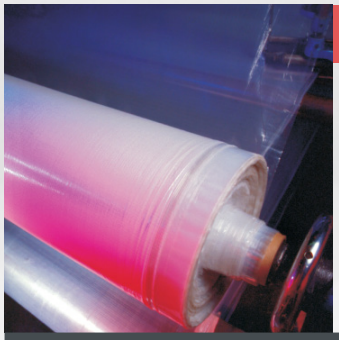


ORCOTAPE®

ORCOTAPE® lightweight reinforced pressure-sensitive tapes are used for fabrication and repair of thermal/acoustic bags and blankets, aircraft carpet installation. Other specialty ORCOFILM® / LAMAGUARD FILMS / ORCOTAPE / LAMART TAPES are available in a variety of configurations, depending on the level of reinforcement, weight and substrate material used.

ORCOTAPE®	CATEGORY	SPECIFICATIONS	FEATURES
LT Hardware	PEEK Tapes	MMS01-001	Lightweight, clear PEEK
LT23 MD-TY1	PEEK Tapes	BM5-157	Lightweight, metalized PEEK
LT23 TY2	PEEK Tapes	BMS5-157	Double-Sided, PEEK
OT-157TN	Polyvinyl Fluoride (Tedlar®) Tapes	BMS5-157 DMS 1984	Metalized PVF
OT-40N	Aircraft Carpet Tapes	BMS5-133, BAMS535-002	Double-sided, differential tack
OT-41N	Aircraft Carpet Tapes	FAR 25.853	Double-sided, differential tack, reverse-wound
OT-46N	Polyvinyl Fluoride (Tedlar®) Tapes	BMS5-157	Double-sided, PVF



ORCOFILM®

Lightweight reinforced insulation covering films were specifically designed for fabrication of thermal/ acoustic insulation bags and blankets. ORCOFILM® products provide a durable and lightweight moisture barrier. Most ORCOFILM® products are optimized for impulse and ultrasonic heat sealing that guarantees their outstanding performance characteristics with current insulation blanket manufacturing processes.

ORCOFILM®	CATEGORY	SPECIFICATIONS	FEATURES
AN-54W	Polyvinyl Fluoride (Tedlar®) Films	BMS8-377, DMS 2450C, DMS 2315	Metalized, stitchable and heat-sealable
AN-57W	Polyvinyl Fluoride (Tedlar®) Films	BMS8-377	Metalized and stitchable only
LAMAGUARD™-10P	PEKK Films	LAMS-1010-TY1	Lightweight, heat-sealable
LAMAGUARD™-30A-TY2-CL2	PEKK Films	BMS8-380	Lightweight, heat-sealable
LAMAGUARD™-400HR	ECTFE (Halar®) Films	BMS8-377	Lightweight, heat-sealable

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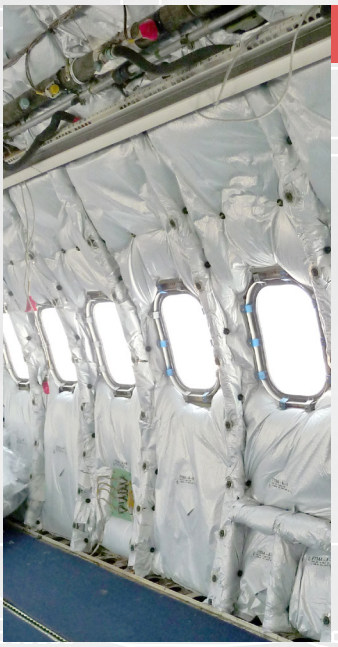

ORCOTEK® STRIP BLANKET

ORCOTEK® Strip Blanket is a time and cost saving product that airlines, MROs and operators use as replacement for wet or damaged insulation blankets. ORCOTEK® standard 50-ft length can be manufactured in 6" to 48" widths at a thickness tailored to aircraft needs. Films, foam and fiberglass meeting ASTM, AIMS, BMS, DMS, etc., specifications can be provided.

CONVENIENT and EASY TO USE The overall benefit of ORCOTEK® is it allows maintenance crews the ability to manufacture replacement insulation parts at a fraction of OEM spares prices. Ad hoc replacement insulation can be manufactured immediately on site, thus eliminating long lead times for delivery of OEM spares. ORCOTEK® is easily cut and tape sealed to quickly produce a replacement part.

INNOVATIVE MANUFACTURING The manufacture of ORCOTEK® Strip Blankets is a process that has one or multiple layers of fiberglass insulation sandwiched between layers of film. The blanket is heat-sealed along the 50-ft edges which are typically 1" wide. Tab options range from 1" to 5" wide.

APPLICATION	FILMS	COMPATIBLE TAPES
Boeing, McDonnell Douglas	AN-54W	OT-157TN OT-260 LT-23MD-TY1
Boeing, McDonnell Douglas, Bombardier	AN-57W	OT-157TN OT-260 LT-16
Boeing, McDonnell Douglas	Lamaguard™ 400HR	OT-157TN OT-260 LT-23MD-TY1
Boeing, McDonnell Douglas	Lamaguard™ 400A	OT-157TN OT-260 LT-23MD-TY1
Boeing, McDonnell Douglas	Lamaguard™ 401A	OT-260 LT-16
Boeing, McDonnell Douglas, Bombardier	Lamaguard™ 10P	OT-157TN LT-16
Boeing, McDonnell Douglas, Bombardier	Lamaguard™ 131MDA	LT-23MD-TY1

FIBERGLASS DENSITIES (THICKNESS VARIES)	FOAMS (THICKNESS VARIES)
.34 PCF, .42 PCF, .6 PCF, 1.0 PCF, 1.2 PCF, 1.5 PCF	Melamine, Polyimide

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AIRFRAME INSULATION KITS

Lamart California has the expertise and ability to manufacture finished thermal/acoustic insulation blankets for just about any type of aircraft. Our products are high quality and competitively priced. Lamart California's professional team of engineers can design blankets to meet your certification requirements and/or develop fabrication tooling to support your engineering. Lamart California's engineering and manufacturing departments adhere to the strictest aerospace and quality standards.

If you find yourself routinely replacing the same blankets during maintenance visits or are uncertain what zones most frequently require replacement, let Lamart California develop a convenient Mechanic's Choice Kit (MCK) specific to that aircraft region. These efficient kits are compatible with existing insulation and improve maintenance cost and schedules.

AVAILABLE IN CONVENIENT KITS OR INDIVIDUAL BLANKETS!

BOEING & MCDONNELL DOUGLAS

Lamart California is pleased to offer Boeing & McDonnell Douglas (MD) operators an option when buying insulation blankets for any Boeing 700 or MD series aircrafts. We carry a complete line of lower lobe replacement insulation blanket kits, from nose-to-tail ship sets to individual kits, which will meet any Boeing 700 or MD series insulation requirements. Lamart Corporation's clean and simple part number system correlates directly with installation drawings, eliminating the need for a parts-to-installation location cross reference list.

Lamart Corporation holds the following Supplemental Type Certificate (STC) number:

BOEING 700 SERIES

- ST01793LA – 737-200, -200C, -300, -400, & 500 Series
- ST01123LA – 747-400 Series
- ST01834LA – 757-200 & 200PF Series
- ST01824LA – 767-200 & -300 Series
- ST01712LA – 777-200 Series

MCDONNELL DOUGLAS SERIES

- ST01150LA –DC-9-81, DC-9-82, DC-9-83, DC-9-87, & MD-88
- ST01289LA –DC-10-30, MD-10-10F, MD-10-30F, & MD-11F

Supplemental Type Certificate (STC), Parts Manufacturer Approval (PMA), and Alternate Means of Compliance (AMOC) letters are available on request.

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FAA STCS

AIRCRAFT	COMPANY	STC/PMA	FEATURES
737-200/300/400/500	Boeing	ST01793LA	Full Ship Set
747-400	Boeing	ST01123LA	Lower Lobe
757-200/200PF	Boeing	ST01834LA	Full Ship Set
767-200/300	Boeing	ST01824LA	Full Ship Set
777-200	Boeing	ST01712LA	Lower Lobe
A319, A320, A321	Airbus	ST02497LA	Forward Galley, Floor Panels, & Doors
Challenger 300 (BD-100-1A10)	Bombardier	ST02299LA	Full Ship Set
Challenger 850 (CL-600-2B19)	Bombardier	ST02350LA	Full Ship Set
DC-10-30	McDonnell Douglas	ST01289LA	Full Ship Set
DC-10-30F	McDonnell Douglas	ST01289LA	Full Ship Set
DC-9-81	McDonnell Douglas	ST01150LA	Full Ship Set
DC-9-82	McDonnell Douglas	ST01150LA	Full Ship Set
DC-9-83	McDonnell Douglas	ST01150LA	Full Ship Set
DC-9-87	McDonnell Douglas	ST01150LA	Full Ship Set
MD-10-10F	McDonnell Douglas	ST01289LA	Full Ship Set
MD-10-30F	McDonnell Douglas	ST01289LA	Full Ship Set
MD-11F	McDonnell Douglas	ST01150LA	Full Ship Set
MD-88	McDonnell Douglas	ST01150LA	Full Ship Set

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DRYLINER™

Dryliner™ is a lightweight, resilient, thermoplastic sheet designed to elevate aircraft insulation blankets off the aircraft fuselage skin. This allows for the effective drainage of liquid condensate down the skin without contacting the blanket, resulting in a lighter, drier, and longer lasting blanket. This lighter blanket translates to reduced aircraft fuel usage, lower maintenance costs. and superior thermal and acoustical performance.

Dryliner™ will not crush or deform even after being stepped on, allowing it to maintain its performance characteristics throughout multiple maintenance visits. In addition, Dryliner™ is up to 70% lighter than some existing fuselage liners. Dryliner™ is manufactured from materials that pass the most stringent FAA flammability and industry toxicity requirements, allowing it to be installed on all aircraft.

Installation can be performed quickly, because Dryliner™ is available in standard or custom lengths and widths. Field modifications are done easily by trimming with standard industrial scissors. Allows for moisture to drain freely along the fuselage skin and into the aircraft sump area for pump-out. Reduces maintenance cost of replacing soggy insulation blankets.

- Transparent material affords visual inspection without removal
- Easily installed and trimmed with shop scissors
- Reduces overall weight of existing liner / blanket systems
- Self interlocking geometry - no fasteners required
- Dryliner's "springback" feature makes it crush resistant

MATERIAL	GE® POLYCARBONATE	
STANDARD DIMENSIONS	WIDTH	20 inches | 51 cm
	LENGTH	48 inches | 121.9 cm
	MATERIAL THICKNESS	0.010 inches | 0.250 mm
	STANDOFF HEIGHT	0.50 inches | 12 mm
OPTIONAL DIMENSIONS	WIDTH	17 inches | 43 cm
	LENGTH	60 inches | 153 cm
		72 inches | 180 cm
WEIGHT	0.065 lbs/sq ft. | 0.32 kg/sq m	
FLAMMABILITY PERFORMANCE	Meets FAR 25.853; 12 & 60 sec. vertical burn	
INSTALLATION	Fits easily between aircraft frames, interlocking geometry – no fasteners required. Length adjustable per customer specifications. Easily cut to fit around wire bundles and other components.	
FEATURES	▪ Allows for air circulation throughout the installed areas, decreasing chances for corrosion. ▪ Provides up to 0.50 inches of clearance between the insulation blanket and the fuselage skin, providing excellent air circulation. ▪ Dryliner™ will not permanently crush or deform. Unique "springback" feature skin and insulation blanket. ▪ Up to 70% lighter than some existing fuselage liners. ▪ Aircraft/payload range is increased.	

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MILITARY

Lamart California provides insulation products for various military aircraft platforms. We provide bulk roll insulations fabricated per OEM specifications for Lockheed C.130 and C-5 aircraft, Boeing CH-47, Bell UH-1 and other U.S. military platforms. Bulk rolls are used to fabricate sidewall insulation blankets, HVAC insulation duct blankets, and between frame insulation battings or blankets per OEM requirements. We supply headliner, floor-mat. binding tape, trim fabrics, glass cloth, thread, and hardware to OEM Military specifications and various MIL-SPEC or SAE standards. Lamart California also has the capability to fabricate "built to print" insulation assemblies per customer supplied drawings, or by reverse engineering customer supplied blanket assemblies.

LOCKHEED C-130 CARGO AIRCRAFT

MATERIAL & SPECIFICATION	ITEM NO.	T X W X L	APPLICATION
Insulation Batting, STM 26-702, Style C, Type 2 Grade AA, Class 2 (G26.2621) Supersedes LAC26-2006	57033-12 57000 57010 57007	2" x 4" x 12' 2" x 7" x 25' 2" x 11" x 25' 2" x 21" x 25'	Between Frame Batts (covered batting with hook tape fastener) Process Bulletin G-509
Insulation Blanket, Service Trim STM 26-703, Type 2, Grade B Classes 1 & 2, Color Green #34424 (G26.2661) Supersedes LAC26-2007	57113 57103 57203 57211	1" x 48" x 50' 1" x 36" x 50' 2" x 36" x 50' 2" x 48" x 25'	Over Frame Blanket- material used on interior sidewalls
Insulation Blanket, 2-sided High Speed STM26-703, Green #34424 (G26.2670)	57121 57221	1" x 48" x 50' 2" x 48" x 25'	Over Frame Blanket, Heavy Duty backing – High Speed version
Insulation Blanket, Quilted AMS-I-7171 (Superseded MIL-I-7171) Type 1, Class 2, Style A, NSN5640-00-269-1049 Green #34424 (G26.2671)	63001	¼" x 36" x 50yd	Quilted Blanket Insulation, diamond stitched, used in high wear areas in lieu of STM26-703 over frame blankets (1/4" thick)
Insulation Blanket, Quilted AMS-I-7171 (Superseded MIL-I-7171) Type 1, Class 2, Style A, NSN5640-00-269-1048 Green #34424 (G26.2671)	63002	½" x 36" x 50yd	Quilted Blanket Insulation, diamond stitched, used in high wear areas in lieu of STM26-703 over frame blankets (½" thick)
Insulation Blanket, Process specification LAC G597 C1B w/LAC26-871 #34424 Green Trim Fabric bonded one side	56503	½" x 36" x 25'	HVAC Duct Blanket with bonded trim fabric one side, uncoated glass fabric on "HOT" side, service temperature 450°F

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MATERIAL & SPECIFICATION	ITEM NO.	T X W X L	APPLICATION
Insulation Blanket, Process specification LAC G597 C2B w/LAC26-871 #34424 Green Trim Fabric bonded both sides	56498	½" x 36" x 25'	HVAC Duct Blanket with bonded trim fabric both sides, service temperature 350°F
Insulation Trim Fabric, STM26-103 Class 4.5, Type 1, Green #34424 (G26.0941)	5521D	52" nominal width	Trim Fabric used on STM26-703 Insulation blankets. NOT HEAT SEALABLE.
Insulation Trim Fabric, STM26-103 Class 4.5, Type 2, Green #34424 (G26.0941)	5513D	52" nominal width	Trim Fabric used on STM26-703 Insulation blankets. HEAT SEALABLE.
Insulation Binding Fabric, STM26-103, Class 4.5, Type 1, Green #34424 (G26.0941)	5933D	4" width St. Tape 375 FT/RL	Fabric Binding Tape used on STM26-703 blankets.
Insulation Binding Fabric, STM26-103, Class 4.5, Type 1, Green #34424 (G26.0941)	5903	1" width Bias Tape 375 FT/RL	Fabric Binding Tape used on STM26-703 blankets.
Glass Cloth Binding Tape, MIL-Y-1140, Form 5, Type Ecc A, Class C	2909	1 ½" width, .007" thick, 50 YD/RL	Glass Cloth Binding used on duct blanket assemblies per LAC G597
Hook and Loop Fastener	Contact Customer Service	Various widths and colors available, also available in Nomex.	Hook and Loop Fastener, used in fabrication of insulation batting and over frame blankets.
Snap Fasteners NASM27980-IN NASM27980-6N NASM27980-7N NASM27980-8N NASM27980-27N (replaced 26N)	14001 14003 14005 14007 14040	Per specification NASM27980 (MS27980 Superseded); Other hardware specifications available.	Snap Fasteners for the installation of STM26-703 over frame blankets.
Thread	Contact Customer Service	Per customer requirements	Thread for use in fabrication of insulation assemblies
Cover Film, Reinforced STM22-102 Type II	5350	52" x 350 Yd/RL	Reinforced Film used on back of STM26-703 over frame blankets, and STM26-702 between frame batts
Repair Tape OT-102/STM22-102	5350-4	4" x 60YD/RL	Repair Tape for use on STM26-703 over frame blankets (backside only) and STM26-702 between frame batts
Fabric, Chloroprene coated, LAC26-871(1) duct fabric, Green #34424 (G26.0901)	5928	38" wide	Fabric, Chloroprene coated, used on HVAC ducting and LAC G 597 blankets

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LOCKHEED C-5 CARGO AIRCRAFT

QUILTED SIDEWALL INSULATION PER AMS-I-7171

Lamart California's quality insulation sidewall blankets for the C-5 aircraft are manufactured per AMS-I-7171, Type I, Class 2, Style A in finished thicknesses of ½", 50" wide by 50 yards per roll. Standard colors for the C-5A&B are blue #25414 for the lower sidewalls and beige #23531 for the upper sidewalls. For the C-5M, sidewall color is #36118 D.GRAY for both upper and lower sidewall surfaces.

LAMART CALIFORNIA PN	THICKNESS	COLOR
63068	½"	#25414 Blue
63084	½"	#23531 Beige
63066	½"	#36118 Dark Gray

LAMART CALIFORNA DUCT COVER INSULATION MATERIALS:

Lamart California's C-5 HVAC duct cover material is manufactured per STM26-603 bonded to STM26-103 fabric and is provided in 1/2" thickness, 48" wide, in 50 FT lengths. Standard colors for the C-5 aircraft are blue #25414, beige #23531 and dark gray #36118.

LAMART CALIFORNIA PN	COLOR
56946	#25414 Blue
56947	#23531 Beige
56948	#36118 Dark Gray

OTHER LAMART CALIFORNIA MATERIALS AVAILABLE FOR THE C-5

FABRICS AND BINDING TAPES

Fabric specifications available include MIL-C-22787 Type 1, and STM26-103 Class 4.5, Type 1 and other MILSPEC fabrics. Full width fabric is available in 50-54" widths and 36" widths. Binding tapes manufactured from the above fabrics are available from 1" wide to 8" wide (straight tape). Custom widths available, call customer service to inquire about your specific needs.

BETWEEN FRAME BATTING

Per STM26-702, various widths and thicknesses, with or without Velcro hook strips.

OTHER MATERIALS

Lamart California can supply other materials needed to fabricate finished panels for the C-5 such as: Fiberglass Insulation, MIL-SPEC Fabrics, Thread, Hook and Loop attachment tapes, and Hardware.

BUILD TO PRINT PARTS

Lamart California has the capability to manufacture sewn assemblies to your engineering drawings, or we can reverse engineer parts and fabricate new assemblies to fit your application. Lamart California can also assist with technical questions related to C-5 insulation blankets and materials.

The sale of military products are subject to all United States export laws and regulations.

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LAMART CALIFORNIA SPACE FILMS

Lamart California's reinforced Kapton® and Mylar® space films have been specially developed to meet the space industry's need for strong, but lightweight, films for MLI (multilayer insulation) blankets and other spacecraft applications.

Reinforced films can help:

- Rip & Tear Prevention, without adding weight
- Reduce Cost of Blanket Repairs
- Reduce Schedule Delays

Lamart California uses its proprietary Bonded Orient Continuous Strand (BOCS) technology to apply Nomex® reinforcing yarns to one face of the film. The advantage of the BOCS process is its unique method of securing the yarn to the film. Instead of coating the entire film surface with adhesive, the BOCS method applies adhesive only to the yarns in one direction. This minimizes the amount of adhesive, making Lamart California's reinforced films much lighter in weight than competing reinforced films, while easily meeting strict outgassing requirements. Also, the open pattern of Lamart California's reinforcing permits direct access to the film surface for static grounding.

Using Lamart California's reinforced space films, MLI (multilayer insulation) blanket designers can replace thick, heavy external film layers with thinner reinforced films that are much stronger, yet weigh less than the thick film. The cost benefits from fewer blanket repairs and lighter weight can be significant especially on large communications satellites.

Lamart California space films come in a variety of types to meet different spacecraft applications. Our standard product configurations are listed below. Please contact us if there are other configurations you are looking for.

FIBERGLASS DENSITIES (THICKNESS VARIES)	FOAMS (THICKNESS VARIES)
AN-90D	0.5-mil (12.7 micron) polyester film. Aluminized one side. Reinforced on aluminized side with 200 denier Nomex yarns, 4x4 yarns per inch, bonded with OA-92 proprietary water based polyester adhesive.
AN-90PD	0.5-mil (12.7 micron) polyester film. Aluminized one side. Perforated at 1% open area. Reinforced on aluminized side with 200 denier Nomex yarns, 4x4 yarns per inch, bonded with OA-92 proprietary water based polyester adhesive
AN-108S	Lamination of 2 layers reinforced 0.5-mil Tedlar®, aluminized inside for static dissipation. NASA-KSC Group 1 protective cover film.

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FIBERGLASS DENSITIES (THICKNESS VARIES)	FOAMS (THICKNESS VARIES)
KN-90D	1-mil (25.4 micron) Black 100XC Kapton® (10E7 ohm/sq.). Reinforced one side. Not metalized
KN-90GD	Same as KN-90D, with germanium applied to non-reinforced side of film.
KN-92PD	0.5-mil (12.7 micron) Kapton®, aluminized one side, with perforations. Reinforced on aluminized side.
KN-93D	1.0-mil (25.4 micron) natural polyimide (Kapton) film. Aluminized one side. Reinforced on the aluminized side with 200 denier Nomex yarns, 4x4 yarns per inch, bonded with OA-92 proprietary water based polyester adhesive.
KN-94D	1.6-mil (40.6 micron) Black 160XC Kapton® (360 ohm/sq.). Reinforced one side. Not metalized.
KN-94PD	1.6-mil (40.6 micron) black, carbon-loaded polyimide (Kapton 160XC) film. Perforated at 1% open area. Reinforced on one side with 200 denier Nomex yarns, 4x4 yarns per inch, bonded with OA-92 proprietary water based polyester adhesive.
KN-98D	0.5-mil (12.7 micron) natural polyimide (Kapton) film. Aluminized both sides. Reinforced on one side with 200 denier Nomex yarns, 4x4 yarns per inch, bonded with OA-92 proprietary water based polyester adhesive.
KN-98PD	0.5 mil Kapton®, aluminized both sides, with perforations. Reinforced on one side with 200 denier Nomex yarns, 4x4 yarns per inch, bonded with OA-92 proprietary water based polyester adhesive.
KN-99D	1-mil (25.4 micron) Black 100XC Kapton® (10E7 ohm/sq.). Aluminized one side. Reinforced on aluminized side with 200 denier Nomex yarns, 4x4 yarns per inch, bonded with OA-92 proprietary water based polyester adhesive.
KN-99GD	1-mil Black 100XC Kapton® (10E8 ohm/sq.). Aluminized one side; unreinforced face germanium coated. Reinforced on aluminized side with 200 denier Nomex yarns, 4x4 yarns per inch, bonded with OA-92 proprietary water based polyester adhesive.
KN-111GD	1.0-mil (25.4 micron) black, carbon-loaded polyimide (Kapton 100CB) film. Germanium coated on one side at a thickness of approximately 500 Angstroms. Reinforced on the opposite side with 200 denier Nomex yarns, 4x4 yarns per inch, bonded with OA-92 proprietary water based polyester adhesive.
KN-113GD	1.0-mil (25.4 micron) black, carbon-loaded polyimide (Kapton 100CB) film. Germanium coated on one side at a thickness of approximately 1000 Angstroms. Reinforced on the opposite side with 200 denier Nomex yarns, 4x4 yarns per inch, bonded with OA-92 proprietary water based polyester adhesive.

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