



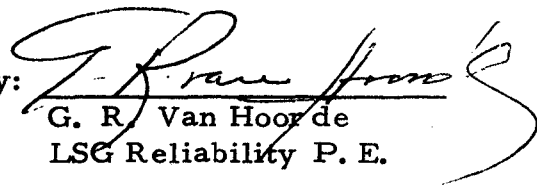
**Aerospace  
Systems Division**

Non-Metallic Materials List  
for  
The LSG Experiment


NO.	REV. 1
ATM 1044	
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DATE 8/9/71	

Presented herein is a composite list of all non-metallic materials used in the LSG Experiment. Section A presents the non-metallic materials list for LSG-Bendix. Section B presents the non-metallic materials list for LSG-ADL.


Prepared by:

  
G. R. Van Hoorde  
LSG Reliability P. E.

Approved by:

 8-10-71  
J. Hendrickson  
Experiments Group Engineer

Approved by:

  
S. J. Ellison, Manager  
ALSEP Reliability

Description	Vendor/Spec	Designation	ATM 242-	Usage Dwg. No. 236XXXX
<u>Adhesives</u>				
Elastomeric	3M ACD	EC-1357	118	2199, 2397, 2187 (TYP)
Epoxy, Filled	Wakefield	Deltabond 152	113	2186
<u>Electrical Insulation &amp; Wiring</u>				
Tape, Self-Adh, Kapton	Mystik	7366	318	7610
Wire, Insul, Teflon	MIL-E-16878	ET-24, ET-26	307	2199, 2169
Tubing Teflon	MIL-I-22129	26 GA	301	9022
<u>Finishes &amp; Coatings</u>				
Urethane, Clear	Thiokol	Solithane 113-300/C-113	412	2186, 2187 (TYP)
Urethane, Amber	Prod Res	PR-1538	908	2199, 2169
Ink, Marking	Independent	73-X	403	2199, TYP
<u>Foams &amp; Sponge</u>				
Urethane	Emer & Cum	Eccofoam FP/R-2	510	2187 (TYP)
<u>Lubricants &amp; Grease</u>				
Compound, Heat Sink	Dow-Corning	DC-340	602	2199, 2186



SECTION A

Non-Metallic Materials List - Bendix

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Description	Vendor/Spec	Designation	ATM 242-	Usage Dwg. No. 236XXXX
<u>Plastic Laminates</u>				
Epoxy-Glass, Cu Clad	MIL-P-13949	FLGB031C2/2AIIA	813	9020
" " " "	MIL-P-55617	GF	809	2192 (TYP)
Epoxy-Glass, B-Stage	MIL-G-55636	GF	810	2192(TYP)
Nylon-Phenolic	MIL-P-15047	.031 THK	-	2101 (or G. E. #11545)
Epoxy-Glass	MIL-P-18177	GR GEE	812	2458 (.005 THK)
<u>Potting Compounds</u>				
Silicone, 1-Part	Dow Corning	DC 92-024	922	2199
Thread Sealant	Loctite	Loctite H	918	2199
<u>Thermoplastics</u>				
Polyester	Dupont	Mylar "A"	1012	2397
Teflon TFE	Dupont	Teflon TFE	1001	233
<u>Miscellaneous</u>				
Cable, RF	MIL-C-17	RF-196 A/U		2199



SECTION

List of Non-Metallic Materials - ADL

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Description	Mfr. Code No.	Manufacturer	LSGNMS		BxA Approval		ATM 242-E File No.
			No.	Date	TWX	Date	
Adhesive	1200 Primer 3145 RTV	Dow Corning	D 6	3/12/71	S532	5/14/71	-
Adhesive	FM 1000 Film Type	American Cynamide Bloomingtondale					102 102
Adhesive	EPON 923	Shell Chemical					107
Adhesive	Silastic 140	Dow Corning					122
Bonding Agent	Helix R380, R393	Carl H. Biggs Co.	D12	5/11/71	Pending		-
O-Ring Buna N	2-4, 2-8, 2-10, 2-165	(N219-7) Parker Seal Co.	D28	7/1/71	Pending		-
Gasket Buna N	MIL-R-6855 Class 1	Globe Industries	D28	7/1/71	Pending		-
O-Ring Butyl	2-4 2-165	(B318-7) Parker Seal Co.					-
Teflon Insulated Cables	MIL-W-16878 Type E	Various					302
Flat Black Ink	Cat-L-Ink 50-710	Wornow Process Paint Co.					415
Paint, Orange	Cat-L-Ink 50-209	Wornow Process Paint Co.					415
Paint, White Velvet Coating	NEXTEL 401-A10	3M-RPD					401



SECTION 1

List of Non-Metallic Materials - ADL

NO.	ATM 1044	REV. NO.	
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Description	Mfr. Code No.	Manufacturer	LSGNMS		BxA Approval		ATM 242-E File No.
			No.	Date	TWX	Date	
Paint, Black Velvet Coating	NEXTEL 401-A10	3M-RPD					401
Varnish	12-0-12	P. D. George, Co.	D 2	2/25/71	S527	3/23/71	-
Varnish	T653-LBH	Sterling Varnish	D13	5/11/71	Pending		-
Rubber Pad Cohrlastic	R-10470 Medium	Connecticut Hard Rubber Co.					508
Lubricant, Dry, Molycote	2	Dow Corning					601
Lubricant Thermal Grease	DC340	Dow Corning					602
Lubricant Solid Film	4396	Electrofilm, Inc.	D 3	2/25/71	S527	3/23/71	-
Lubricant, Grease	Krytox 240 AC	Dupont					612
Lubricant Oil	Krytox 143	Dupont					-
Nylon Cloth 1.2 oz.	Dynalite, Greig Spec. 3749 Lot 4451	Howe and Bainbridge					1019
White Nylon Thread	K23	Hub Thread Co. (Dupont)					1019

SECTION B  
 List of Non-Metallic Materials - ADL

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Description	Mfr. Code No.	Manufacturer	LSGNMS No.	Date	BxA Approval TWX	Date	ATM 242-E File No.
Nylock Torque Patch	Nylock (Nylon 24 TEL 101)	USM Corp					706
Phthalate Glass filled Diallyl	52-01 FS5	Mesa Plastics	D 4	2/25/71	S527	3/23/71	704
Strain Relief	AP-0 AP-1 (24 TEL 101)	Electrovert					706
ESNA Stop Nuts (nylon inserts)	24 Tel 101	Elastic Stopnut Co.					706
Bearing, Thompson Nyliner	2L2-FF 6L8-D (24 TEL 101)	Tech Bearing Co.					706
Rod, Nylon *24 TEL 101	1/2" (Nylon)	Dupont Dupont					706 706
*Used in retainers, washers, nuts, pins, standoff and locking spool.							
Thermistor Cover	NEMA G10	General Electric					812
Support Strap	NEMA G10	General Electric					812
Paper Phenoliclaminat	NEMA Grade XXX	General Electric	D10	4/21/71	S858	5/6/71	-
Fiberglass	NEMA G10	General Electric					812
Locktite	22-24	Locktite Corp.					918



SECTION B

List of Non-Metallic Materials - ADL

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Description	Mfr. Code No.	Manufacturer	LSGNMS No.	LSGNMS Date	BxA Approval TWX	BxA Approval Date	ATM 242-E File No.
Epoxy and Hardener	LCA 9 BA5	Bacon Industries	D 1	1/12/71	Letter	3/16/71	-
2 Part Epoxy	Stycast 3050	Emerson and Cumming	D 9	3/25/71	S903	5/11/71	-
Rubber, RTV Silicone and Primer	PR1933-1/2 PR 1903	Products Research	D 7	3/15/71	S639	4/8/71	926
Epoxy Coating	Hysol DK 4	Hysol Co.	D14	5/11/71	Pending		-
Rod, Teflon	1/2"	Dupont					1001
Vespel Polimide	SP1	Dupont					1015
Sheet, Teflon	MIL-P22242	Dupont					1002
Tubing, Teflon Thin Wall	AMS 3654	Dupont					301
Tubing, Alphlex Shrink (Teflon)	PFT500-10 500-8	Alpha Wire					321
Ring Teflon Pull	.030" AMS3651	Commercial Plastic (Dupont)					1001
Retainer Glass Reinforced	Duroid 5813 (Teflon)	Dupont					1001
Tape Mylar	Permacel 252	Johnson and Johnson	D 5	3/1/71	S527	3/23/71	-



SECTION B  
List of Non-Metallic Materials - ADL

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Description	Mfr. Code No.	Manufacturer	LSGNMS No.	Date	BxA Approval TWX	Date	ATM 242-E File No.
Mylar Double Aluminized	ADL Spec. MS1:809-ENG	Dupont					1012
Fluorofilm Orange	DF 1700 .030"	Dielectrix Corp.					1001
100% Dacron Cloth	Partytime .007" Thick	Jordan Marsh Co.					1018
Dacron Thread	V46 Dabond	Hemingway and Bartlett Co.					1018
Velcro White Pile	V12-1665-100 V12-200-100	Velcro Corp.					1101
Kapton		Dupont					1106
ML Coated Fabric (Kapton)	6507-007	Dupont					-
Net Silk Spacer	5527	Jordan Marsh					1113
Cloth, Dacron	Carolon .006"	Jordan Marsh					1018
Cord, Dacron	Type A Finish MIL-T-43435	Western Filament Type 2 Size 5					1018