



**Aerospace  
Systems Division**

Lunar Seismic Profiling Experiment  
(LSPE)  
Non-Metallic  
Materials List

ATM 1040

PAGE 1 OF 5

DATE 10 August 1971

This ATM documents the total list of non-metallic materials used in the ALSEP Array E Lunar Seismic Profiling Experiment. The listing is formulated in a manner corresponding to the classifications in ATM-242E, ie: Adhesives, Elastomers, Electrical Insulation, etc. Subsequent columns define the vendor, vendor designation, ATM-242 dash number and whether BxA or their subcontractors use the material. Subcontractors for the LSPE are:

Teledyne-Geotech, Garland, Texas: S. D. S Amplifier and Geophones.

Bulova Watch Company, Valley Stream, LI, NY: Timers.

Catalyst Research, Baltimore, Maryland: Thermal Batteries.

The CRC thermal batteries are hermetically sealed units and are considered to be a EEE part. As such they are listed in ATM 1039, LSPE EEE Parts List.

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(LSPE)  
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NO.	ATM 1040	REV. NO.
PAGE	5	OF
DATE	10 August 1971	

Description	Vendor/Spec	Designation	ATM-242	Usage
<u>Adhesives</u>				
Elastomeric	3M-ACD	EC-1357	118	BxA
Epoxy, Flexible	Emer & Cum	Eccobond 45115	123	BxA
Epoxy	Shell	Epon 901/B-1	116	BxA
Silicone, Conductive	Chomeric	Chobond 1029	125	BxA
Silicone, 1-Part	Dow-Corning	Silastic 140	122	BxA
Epoxy	Narmco	3135/7111	109	BxA
Epoxy, Silver-Filled	Emer & Cum	56 c/9	120	Geotech, BxA
Epoxy	Shell	Epon 828/Z	-	Geotech
Epoxy	Shell	Epon VIII	112	BxA
Epoxy	Dextor	EA 934	-	Geotech
<u>Elastomers</u>				
Fluorocarbon	DuPont	Viton	211	Bulova
Silicone	Chomeric	10-05-1363-1405	-	BxA
<u>Electrical Insulation &amp; Wiring</u>				
Teflon, Heatshrink	Penna Fluoro	Penntube II SMI-XX	321	BxA, Geotech
Tubing, Teflon	Hi Temp	TUY-20, TUZ-30	301	Geotech
Tubing, Telfon	MIL-I-22129	TY I	301	Geotech
Tape, Self ADH TFE	Conn Hd Rub	Temp-R-Tape T	310	BxA
Tape, Self ADH, Mylar	Mystik	7305	309	BxA
Tape, Self ADH, Mylar, Red	Mystik	7331	-	BxA
Tape, Self ADH	Mystik	7366	318	BxA
Tape, Self ADH	Mystik	7510	312	BxA
Tape, Self ADH	Mystik	7263	-	Geotech
Tubing	Rayclad	Thermofit-Kynar	325	Geotech



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Non-Metallic Materials List

NO.	ATM 1040	REV. NO.	
PAGE	3	OF	5
DATE	10 August 1971		

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<u>Electrical Insulation &amp; Wiring (Cont)</u>				
Wire, Insul, TFE	MIL-W-16878	ET-22-26	307	Geotech
<u>Finishes, Coating &amp; Marking</u>				
Ink	Independent	73-X	403	BxA
Polyester, 2-Part	3M	401-A10	401	BxA, Geotech
Ink, Epoxy	Wornow	50-209, -700	415	BxA, Geotech
Coating, Low Friction	DuPont	954-101	420	BxA (Telfon "S")
Coating, Low Friction	Life-Lube	-	-	Bulova
Epoxy	Pan Am Res	PC101	-	Geotech
<u>Foams</u>				
Silicone	Conn Hd Rub	R-10470	508	BxA
Urethane	Emer & Cum	Eccofoam FPH	511	BxA
Urethane, Reticulated	Scott	Scotfoam 10PPI	507	BxA
Urethane	Emer & Cum	Eccofoam FP/12-2	510	BxA
Urethane	Emer & Cum	Eccofoam SH/10#	514	BxA
Urethane	UPJOHN/CPR	CPR-9800-6.0	512	BxA
<u>Lubricants &amp; Grease</u>				
Fluorocarbon	DuPont	Krytox	612	Bulova
Oil, Synthetic	H. Moebius & Fils	OL-219	-	Bulova "Synta-Visco-Lube"



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NO.	ATM 1040	REV. NO.
PAGE	4	OF 5
DATE	10 August 1971	

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<u>Molding Plastic</u>				
Polycarbonate	G. E.	Lextan	707	Bulova
Polyamide (Nylon)	DuPont	Zytel 101	706	BxA
<u>Plastic Laminates</u>				
Epoxy-Glass Sheet	MIL-P-18177	Type Geb	807	BxA, Geotech
Epoxy-Glass Rod	L-P-509	G-10	812	BxA, Geotech
Epoxy-Glass Sheet	Formica	FR-45	814	Geotech
<u>Potting Compounds</u>				
Urethane, Amber	Prod Res	PR-1538	908	BxA
Epoxy	Emer & Cum	Stycast 2850 FT/9	915	BxA
Silicone, 1-Part	Dow-Corning	RTV-731	921	Geotech
Silicone, 1-Part	Dow-Corning	92-024	923	BxA
Silicone	G. E.	RTV 560	902	Geotech
Silicone	G. E.	RTV 630		Geotech
<u>Thermo Plastics</u>				
Teflon	DuPont	Teflon TFE	1001	BxA, Bulova, Geotech
Mylar, "S", Alum 25	DuPont	Mylar	1012	BxA



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NO.	ATM 1040	REV. NO.
PAGE	5	OF 5
DATE	10 August 1971	

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<u>Miscellaneous</u>				
Fastener, Hook & Pile	Velcro	V760-2-100	1101	BxA
Fastener, Hook & Pile	Velcro	V1760-1(65)100	1101	BxA
Tread	3M	Scotchred	-	BxA
Tape, Lacing	Gudebrod	721-H	1111	BxA
Cable, RF	MIL-C-17	RG-196A/U	330	BxA
Thread, Dacron	Premier	V-69	1018	BxA
Silk, Natural	Strassberger	S-905	1113	BxA
Bearing, Sintered	Dixon	Rulon "J"	-	BxA (Filled TFE)
Polyimide Film	DuPont	Kapton	1106	BxA
Label Photo Sensitive	3M	Scotchcal 8005	-	Geotech
Sealant, Thread	Loctite	A, B	-	BxA, Geotech, Bulova
Silicone Compound	Parker	S-455	-	Geotech
Fluoro Elastomer	Parker	77-545	202	Bulova
Cord, Lacing	West, Filament	80LOF17A	-	Geotech
Cord, Lacing	West, Filament	50LOF13A	-	Geotech