

Outgassing Data for Emerson & Cuming Microwave's Products

Total Mass Loss = %TML; Water Vapor Recovered = %WVR; Collected Volatile Condensable Material = %CVCM

Items in blue italics did NOT pass the criteria for acceptability as outlined in ASTM E-595-90. Maximum of 1.00 %TML and a maximum of 0.10 %CVCM allowed.

Test Procedure: ASTM E-595-90 & -93						Test Procedure: MIL-STD-750/883			
Series	Material	%TML	%CVCM	%WVR	NASA Data Ref:	Curing Times if Applicable	Hydrogen	Testing Lab	Date
ECCOSTOCK	0005	0.290	0.010	0.010	GSC10565				
ECCOSORB	<i>269EA/BAS100/1BWGRAY10SPRAYCOATS</i>	<i>1.21</i>	<i>0.01</i>	<i>0.14</i>	<i>GSC15030</i>	<i>4Hours @ 75C</i>			
ECCOSORB	269EA/BAS100/1BWGRAY10SPRAYCOATS	0.83	0.01	0.14	GSC15032	24Hours @ 25C, 4Hours @ 75C, 16 Hours @ 75 C			
ECCOSORB	<i>AN72</i>	<i>1.75</i>	<i>0.39</i>	<i>0.65</i>	<i>GSC19105</i>	<i>24Hours @ 110C</i>			
ECCOSORB	AN-72	5.190	1.090	0.710	GSC24123				
ECCOSORB	AN-72	5.870	1.390	0.730	GSC19060				
ECCOSORB	AN-72	5.030	1.190	0.740	GSC19036	(3 hour in 100C air)			
ECCOSORB	AN-72MICROWAVEABSORBANTFOAMETHWASH	2.69	0.68	0.66	GSC24135	21Hours @ 100C			
ECCOSORB	AN72MICROWAVEABSORBANTFOAMETHWASH-3	2.66	0.37	0.48	GSC19063	3Hours @ 100C			
ECCOSORB	AN72MICROWAVEABSORBANTFOAMETHWASH-3	2.26	0.26	0.33	GSC19090	3Hours @ 100C, 24Hours @ 110C			
ECCOSORB	AN72MICROWAVEABSORBANTFOAMETHWASH-3	1.7	0.24	0.7	GSC19165	24Hours @ 110C			
ECCOSORB	AN74ETHANOLWASH-3	0.7	0.07		GSFC5405	21Hours @ 100C			
ECCOSORB	AN74METHANOLWASH-3	0.51	0.05		GSFC5407	21Hours @ 100C			
ECCOSORB	<i>AN-75</i>	<i>8.920</i>	<i>0.810</i>	<i>0.610</i>	<i>GSC23344</i>				
ECCOSORB	AN-75	1.760	0.050	0.060	GSC26173	(1 day in 150C air)			
ECCOSORB	AN-75MICROWAVEABSORBANTALCOHOLWASHED	2.35	0.07	0.53	GSC23350	24Hours @ 100C			
ECCOSORB	AN-75MICROWAVEABSORBANTALCOHOLWASHED	2.7	0.22	0.77	GSC23430	48Hours @ 100C			
ECCOSORB	AN79MICROWAVEABSORBANT	4.37	0.45		GSFC3025				
ECCOSORB	AN79MICROWAVEABSORBANT/3MADH44	1.16	0.39		GSFC4926	3Hours @ 25C, 21Hours @ 100C			
ECCOSORB	AN79MICROWAVEABSORBANT/16HMETOHWASH	1.03	0.15		GSFC4842	3Hours @ 25C, 21Hours @ 100C			
ECCOSORB	AN79MICROWAVEABSORBANT/4HETOHWASH	2.1	0.14	0.61	GSC11409	25Hours @ 100C			
ECCOSORB	ANW-74	7.490	1.970		GSFC2318				
ECCOSORB	BSR	0.470	0.280	0.030	GSC25675				
ECCOSORB	<i>BSR/SS-6M ADHESIVE</i>	<i>0.3</i>	<i>0.12</i>	<i>0.03</i>	<i>GSC29998</i>				
ECCOSORB	BSR/SS-6M ADHESIVE (VACUUM BAKED)	0.13	0.05	0.04	GSC30001	1Hours @ 120C			
ECCOSORB	BSR-1						0.6757	Pernicka	8/11/1999
ECCOSORB	BSR-1/SS-6M (.010")	0.290	0.080	0.040	GSC26545				
ECCOSORB	BSR-2	0.140	0.090	0.010	GSC25726	(1 hour in 130C air)			
ECCOSORB	BSR-2/SS-6M (.020")	0.240	0.080	0.010	GSC27118				
ECCOSORB	<i>BSR-1</i>	<i>6.08</i>	<i>2.47</i>	<i>0.79</i>	<i>GSC28888</i>				
ECCOSTOCK	<i>CPE</i>	<i>1.890</i>	<i>0.110</i>	<i>0.000</i>	<i>GSC16466</i>				
ECCOSORB	CR-110 (Mixed 100X/12Y)	0.880	0.110	0.290	GSC14118	(12 hour in 75C air)			
ECCOSORB	CR-110X/YAS100/12BWEPOXY	0.52	0	0.19	GSC12529	16Hours @ 25C, 12Hours @ 74C			
ECCOSORB	CR-112 (Mixed 100X/8.2W)	0.320	0.010	0.150	GSC14121	(12 hour in 75C air)			
ECCOSORB	<i>CR-114X/YAS100/4.8BW</i>	<i>12.81</i>	<i>0</i>	<i>0.04</i>	<i>GSC24279</i>	<i>12Hours @ 77C</i>			
ECCOSORB	CR-117 (Mixed 100X/2.3Y)	0.260	0.010	0.080	GSC12088	(12 hour in 74C air)			
ECCOSORB	CR-124 (Mixed 50X/1Y)	0.120	0.010	0.050	GSC24422	(2 hour in 122C air)			
ECCOSORB	CR-124 (Mixed 50X/1Y)	0.110	0.000		GSFC5494	(14 day in 25C air)			
ECCOSORB	CR-124 (Mixed 50X/1Y)	0.090	0.000		GSFC5497	(4 hour in 93C air)			
ECCOSORB	CRS-124 (Mixed 100A/1B)	0.290	0.090		GSFC5447	(3 hour in 80C air)			
ECCOSORB	FDS	0.290	0.120	0.010	GSFC9575				
ECCOSORB	FDS	0.050	0.020	0.030	GSFC9596	(6 hour in 200C air)			
ECCOSORB	<i>FDS/S-11/ECCOSILLTP50/F</i>	<i>0.4</i>	<i>0.14</i>	<i>0.01</i>	<i>GSC23943</i>				
ECCOSTOCK	FFP	0.530	0.040	0.070	GSC27334	(30 hour in 107C air)			
ECCOSTOCK	<i>FFP</i>	<i>3.450</i>	<i>1.060</i>	<i>0.120</i>	<i>GSC26947</i>				
ECCOSORB	FGM-125	0.310	0.100	0.010	GSC26853				
ECCOSORB	FGM-125/SS-6M	0.230	0.060	0.040	GSC27139				
ECCOSORB	FGM-40	0.160	0.060	0.000	GSC19225				
ECCOSORB	FGM-40/SS-6M	0.200	0.030	0.010	GSC26548				
ECCOSORB	<i>FGMU-125</i>	<i>4.430</i>	<i>1.430</i>	<i>0.120</i>	<i>GSC27145</i>				
ECCOSORB	FGMU-40	1.810	0.000	0.090	GSC27148		0.0000	Pernicka	7/22/1996
ECCOSTOCK	<i>FPH/12-2H</i>	<i>1.29</i>	<i>0.03</i>	<i>0.76</i>	<i>GSC15444</i>	<i>16Hours @ 25C, 49Hours @ 60C</i>			
ECCOSTOCK	<i>FPH/12-2H</i>	<i>0.91</i>	<i>0.36</i>		<i>GSFC1654</i>	<i>1Hours @ 50C</i>			
ECCOSTOCK	FPH/12-2H	0.99	0.07	0.59	GSFC5906	8Hours @ 60C, 12Hours @ 60C			
ECCOSTOCK	FPH/12-2H	1.15	0.08	0.56	GSFC5909	8Hours @ 60C, 24Hours @ 60C			
ECCOSTOCK	FPH/12-2H	1.08	0.1	0.47	GSFC5912	8Hours @ 60C, 63Hours @ 60C			
ECCOSTOCK	FPH/12-2HA/BAS20/13PBWPINKFOAM	1.06	0.05	1.22	GSC22084	48Hours @ 100C			
ECCOSTOCK	FPH/12-2HA/BAS20/13PBWPINKFOAM	1.24	0.04	1.14	GSC22087	48Hours @ 150C			
ECCOSTOCK	FPH/12-2HA/BAS20/13PBWPINKFOAM	1.27	0	0.91	GSC22156	16Hours @ 25C, 48Hours @ 100C			
ECCOSTOCK	FPH/12-2HA/BAS20/13PBWPINKFOAM	1.42	0.01	0.88	GSC22159	16Hours @ 25C, 48Hours @ 100C			
ECCOSTOCK	FPH/12-2HAS100/65BWP	1.59	0.03	0.7	GSC18026	6Days @ 65C			
ECCOSTOCK	FPH/12-2HAS20/13PBWPINKFOAM	1.65	0.05	0.88	GSC22132	24Hours @ 25C			
ECCOSTOCK	FPH/12-4H	0.63	0.03		GSFC3295	24Hours @ 120C, 48Hours @ 100C			
ECCOSTOCK	FPH12-10HA/BAS4/3BWPOLYURETHANEFOAM	2.1	0.03		GSFC4416	24Hours @ 40C			
ECCOSTOCK	FPH12-10HA/BAS4/3BWPOLYURETHANEFOAM	1.93	0.01		GSFC4438	24Hours @ 40C, 48Hours @ 40C			
ECCOSTOCK	FPH-12-2H	1.320	0.000	0.580	GSC10410	(8 hour in 60C air)			
ECCOSTOCK	FPH-12-2H	1.960	0.090	1.040	GSC15554	(50 hour in 60C air)			
ECCOSTOCK	FPH-12-2H	1.800	0.160		GSFC0098				
ECCOSTOCK	FPH-12-2H	1.180	0.040		GSFC3249	(16 hour in 55C air)			
ECCOSTOCK	FPH-12-2H	0.810	0.150		GSFC3652	(72 hour in 60C air)			
ECCOSTOCK	FPH-12-2H	1.220	0.000	0.540	GSFC5903	(8 hour in 60C air)			
ECCOSTOCK	FPH-12-2H	0.820	0.000	0.590	GSFC4874	(16 hour in 43C air)			
ECCOSTOCK	FPH-12-2H	0.680	0.020		GSFC4924	(16 hour in 43C air)			
ECCOSTOCK	FPH-12-4H	0.710	0.090		GSFC3393	(24 hour in 120C air)			
ECCOSTOCK	FPH-12-4H	0.610	0.120		GSFC3654	(72 hour in 60C air)			
ECCOSTOCK	FPH-12-4H	0.680	0.080		GSFC4786	(48 hour in 100C air)			
ECCOSTOCK	<i>FS</i>	<i>4.08</i>	<i>0.79</i>	<i>0</i>	<i>GSC10490</i>				
ECCOSTOCK	<i>FS POLYURETHANEFOAMETOHWASHX2</i>	<i>0.72</i>	<i>0.19</i>	<i>0</i>	<i>GSC10493</i>	<i>1Hours @ 100C</i>			
ECCOSTOCK	<i>FS POLYURETHANEFOAMETOHWASHX2</i>	<i>0.81</i>	<i>0.18</i>	<i>0.52</i>	<i>GSC10496</i>	<i>24Hours @ 100C</i>			
ECCOSORB	GDS	0.200	0.080	0.010	GSC10796		0.0000	Pernicka	9/9/1999
ECCOSORB	GDS/SS-6M	0.330	0.090	0.020	GSC26542				
ECCOSORB	<i>GDS/SS-6M</i>	<i>0.3</i>	<i>0.11</i>	<i>0.03</i>	<i>GSC29992</i>				
ECCOSORB	<i>GDSU</i>	<i>4.540</i>	<i>1.520</i>	<i>0.060</i>	<i>GSC27127</i>				
ECCOSORB	GDSWITHSS-6MADHESIVE(VACUUMBKED)	0.18	0.09	0.02	GSC29995	1Hours @ 120C			
ECCOSTOCK	HIK K=15	0.180	0.000	0.030	GSC24593				
ECCOSTOCK	HIK K=3	0.150	0.010	0.030	GSC24590				
ECCOSTOCK	HIK500 K=3	0.480	0.010	0.010	GSC24596				
ECCOSTOCK	HIK500 K=30	0.230	0.000	0.030	GSC24611				
ECCOSTOCK	LOK	0.560	0.010	0.090	GSC23967				
ECCOSORB	<i>LS-26</i>	<i>4.920</i>	<i>0.670</i>	<i>0.880</i>	<i>GSC23457</i>				
ECCOSHIELD	<i>LSV</i>	<i>15.47</i>	<i>10.35</i>	<i>0.04</i>	<i>GSC28891</i>				
ECCOSORB	MCS (.040")	0.300	0.050	0.020	GSC26956		0.0000	Pernicka	7/22/1996
ECCOSORB	MCS/SS-6M	0.230	0.050	0.020	GSC26539				
ECCOSORB	MF-110	0.510	0.010		GSFC2965				
ECCOSORB	MF-112	0.260	0.010		GSFC2436				
ECCOSORB	MF-114	0.220	0.000		GSFC2438				
ECCOSORB	MF-117	0.170	0.000	0.060	GSC27142		0.0000	Pernicka	8/11/1999
ECCOSORB	MF-124	0.080	0.000		GSFC2812				
ECCOSORB	MF-190	0.14	0	0.03	GSC31246				
ECCOSORB	MF-190	0.142	0.099	0.005	OCM Test Labs				
ECCOSORB	MF-190	0.030	0.021	0.012	OCM Test Labs	(With bake out @ 135C for 24 hours)			
ECCOSORB	<i>MF-190(5/8INCH)BAR</i>	<i>9.27</i>	<i>0.01</i>	<i>0.01</i>	<i>GSC27169</i>				
ECCOSORB	MF500-110	0.163	0.057	0.036	OCM Test Labs				
ECCOSORB	MF500-110	0.091	0.074	0.047	OCM Test Labs	(With bake out @ 135C for 24 hours)			
ECCOSORB	MF500-117						0.0738	Pernicka	8/11/1999
ECCOSORB	MF500-124	0.022	0.017	0.008	OCM Test Labs				7/1/2009

Series	Material	%TML	%CYCM	%WVR	NASA Data Ref:	Curing Times if Applicable	Hydrogen	Testing Lab	Date
ECCOSORB	MF500-124	0.074	0.030	0.015	OCM Test Labs	(With bake out @ 135C for 24 hours)			
ECCOSORB	MF-500F(1/8INCH)	0.07	0.01	0.01	GSC27151	ASTM-E-595-93			
ECCOSORB	MFS-124						0.0438	Pernicka	9/9/1999
ECCOSORB	MFS-124/SS-6M (.100')	0.160	0.060	0.010	GSC27121				
ECCOSTOCK	FP-2	2.770	0.390	0.130	GSC11144				
ECCOSHIELD	RVS	0.260	0.110	0.010	GSCF8849	(7 day in 25C air)			
ECCOSHIELD	RVS ADHESIVE	0.26	0.13	0.01	GSC29209	16Hours @ 25C, 6Hours @ 150C			
ECCOSORB	SF-1.0	0.170	0.040	0.010	GSC27340				
ECCOSORB	SF-1.5	0.140	0.060	0.010	GSC24057				
ECCOSORB	SF-10.0	0.300	0.160	0.010	GSC27346				