

**RM LECO INORGANIC COMBUSTION SAMPLES**

analysis listed in mass % except \* which is mg/kg

Part Number	Material and Units	C	S	O	N	H*
501-149-0574	Copper pins 100g of 1g pins	.	.	0.0539	.	.
501-148-0503-4	Copper pins 100g of 1g pins	.	.	0.0346	.	.
501-990-1002	Copper pins 100g of 1g pins	.	.	0.0341	.	.
501-148-0504-1	Copper pins 100g of 1g pins	.	.	0.0338	.	.
501-990-1001	Copper pins 100g of 1g pins	.	.	0.0336	.	.
501-147-0517-6	Copper pins 100g of 1g pins	.	.	0.0234	.	.
502-403-0518	Copper pins 100g of 1g pins	.	0.00050	.	.	.
502-403-0518-21	Copper pins 100g of 1g pins	.	0.00049	.	.	.
502-403-0516-1	Copper pins 100g of 1g pins	.	0.00048	.	.	.
502-411-0604-3	Nickel pins 100g of 1g pins	.	.	0.00064	.	.
502-411-0604-1	Nickel pins 100g of 1g pins	.	.	0.00050	.	.
502-411-0604-2	Nickel pins 100g of 1g pins	.	.	0.00033	.	.
502-412-0342-3	Nickel pins 100g of 1g pins	0.0056	0.0051	.	.	.
502-139-1006	Silicon Dioxide powder 10g	.	.	53.2	.	.
502-201-0299-1	Titanium pins 10g of 0.1g pins	.	.	0.306	0.006	.
502-201-0316-2	Titanium pins 10g of 0.1g pins	.	.	0.304	0.002	.
501-996-0592-1	Titanium pins 12g of 0.12g pins	.	.	0.194	0.036	21.4
501-320-0598	Titanium pins 10g of 0.1g pins	.	.	0.190	0.035	.
501-664-0277-1	Titanium pins 10g of 0.1g pins	.	.	0.141	0.009	.
501-657-0567-1	Titanium pins 10g of 0.1g pins	.	.	0.097	0.014	.
501-657-0567-7	Titanium pins 10g of 0.1g pins	.	.	0.091	0.013	.
501-653-0297	Titanium pins 10g of 0.1g pins	.	.	0.053	0.003	.
501-653-J0322-9	Titanium pins 10g of 0.1g pins	.	.	0.049	0.008	.
501-653-J0322-1	Titanium pins 10g of 0.1g pins	.	.	0.047	0.008	.
501-664-0477-52	Titanium pins 10g of 0.1g pins	.	.	0.0066	0.0074	.
502-024-0593-1	Titanium pins 10g of 0.1g pins	.	.	.	.	15.7
502-135-0606-1	Titanium pins 25g of 0.25g pins	.	.	.	.	6.2
501-995-0579-1	Titanium pins 50g of 0.5g pins	0.0236	.	.	.	.
502-141-1030	Tungsten Oxide powder 10g	.	.	20.5	.	.
502-140-1001	Zirconium Dioxide powder 10g	.	.	25.8	.	.
502-047-0538-1	Zirconium pins 10g of 0.1g pins	.	.	0.137	.	.

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762-741-0624	Steel pins 15g of 0.15g pins	.	.	.	.	24.3
502-060-0580-31	Steel pins 125g of 5g pins	.	.	.	.	6.58
501-529-0580-45	Steel pins 100g of 1g pins	.	.	.	.	6.1
502-416-0653-1	Steel Pins 100g of 1g pins	.	.	0.0027	0.0747	2.3
502-061-0480-21	Steel pins 125g of 5g pins	.	.	.	.	2.19
502-061-0480-41	Steel pins 125g of 5g pins	.	.	.	.	2.100
502-416-0653-2	Steel Pins 100g of 1g pins	.	.	0.0027	0.0744	2.0
762-747-0548	Steel Pins 100g of 1g pins	.	.	.	.	1.8
502-138-1002	Iron III Oxide powder 10g	.	.	30.1	.	.
501-123-1024	Tungsten Carbide powder 100g	6.20	.	.	.	.
501-024-1025	Cast Iron powder 250g	3.40	0.030	.	.	.
501-105-1006	Cast Iron powder 250g	2.32	0.011	.	.	.

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501-679-0498	Steel pins 454g of 1g pins	0.818	0.0024	.	.
501-679-0603	Steel pins 454g of 1g pins	0.817	0.0057	.	.
501-506-1213	Steel rings 454g of 1g rings	0.815	0.0032	.	.
502-364-1236-1	Steel rings 454g of 1g rings	0.792	.	.	.
501-678-0637	Steel pins 454g of 1g pins	0.705	0.0144	.	.
501-505-1261	Steel rings 454g of 1g rings	0.627	0.0130	.	.
501-505-1259	Steel rings 454g of 1g rings	0.626	0.0129	.	.
501-677-0581-1	Steel pins 454g of 1g pins	0.457	0.0205	.	.
501-504-1188	Steel rings 454g of 1g rings	0.431	0.0226	.	.
501-676-0533-2	Steel pins 454g of 1g pins	0.183	0.0040	.	.
501-503-1306	Steel rings 454g of 1g rings	0.178	0.0150	.	.
501-510-1237-3	Steel rings 454g of 1g rings	0.163	0.091	.	.
501-510-R0644-1	Steel rings 454g of 1g rings	0.135	0.133	.	.
502-459-J0416-2	Steel pins 100g of 1g pins	0.0634	0.0155	.	0.0046
501-675-0418	Steel pins 454g of 1g pins	0.062	0.0197	.	.
501-502-1250-15	Steel rings 454g of 1g rings	0.059	0.0122	.	.
501-502-1250-9	Steel rings 454g of 1g rings	0.058	0.0120	.	.
501-935-1000	Steel chips 100g	0.0531	0.0034	.	0.0063
501-933-1000	Steel chips 100g	0.0421	0.0029	.	0.0020
502-271-1309	Steel rings 454g of 1g rings	0.041	0.254	.	.
502-455-J0429-2	Steel pins 100g of 1g pins	0.035	0.0024	.	.
501-992-1198-1	Steel rings 454g of 1g rings	0.027	0.0009	.	.
502-809-0578	Steel pins 50g 0.5g pins	0.023	0.030	.	0.074
501-501-1275	Steel rings 454g of 1g rings	0.0186	0.0092	.	.
502-414-1001	Steel pellet 100g of 1g pellets	0.0183	0.0005	.	.
502-402-1002	Steel chips 50g	0.00391	0.00894	.	0.00245
502-348-1025	Steel pins 100g of 1g pins	0.0013	0.0009	.	.
502-401-1001	Iron chips 50g	0.00017	<0.00010	.	0.00015
Part Number	Material and Units	C	S	O	N
502-280-0222	Steel rings 454g of 1g Rings	.	0.119	.	.
502-198-0340-2	Steel pins 100g of 1g pins	.	.	0.0066	.
502-197-0332-4	Steel pins 100g of 1g pins	.	.	0.0039	.
502-072-0066-9	Steel pins 50g of 0.5g pins	.	.	.	0.535
502-016-0232-3	Steel pins 50g of 0.5g pins	.	.	.	0.170
502-257-0587	Steel pins 100g of 1g pins	.	.	0.0056	0.0625
502-494-0560-1	Steel pins 50g of 0.5g pins	.	.	.	0.0482
502-328-0476-3	Steel pins 100g of 1g pins	.	.	.	0.0434
502-102-0588-1	Steel pins 50g of 0.5g pins	.	.	0.0026	0.041
502-328-0474-16	Steel pins 100g of 1g pins	.	.	.	0.0351
502-195-0336-13	Steel pins 100g of 1g pins	.	.	.	0.0260
502-195-0567-5	Steel pins 100g of 1g pins	.	.	.	0.0238
502-194-0478-38	Steel pins 100g of 1g pins	.	.	.	0.0078
501-644-0483-21	Steel pins 100g of 1g pins	.	.	0.0068	0.0076
501-991-1005	Steel pins 100g of 1g pins	.	.	0.0013	0.0063
502-193-0441-5	Steel pins 100g of 1g pins	.	.	.	0.0052
502-193-0526-10	Steel pins 100g of 1g pins	.	.	.	0.0048
501-993-0228-8	Steel pins 50g of 0.5g pins	.	.	.	0.0048
502-193-0529-4	Steel pins 100g of 1g pins	.	.	.	0.0047
501-550-0611	Steel pins 50g of 0.5g pins	.	.	0.0034	0.0045
501-550-0612-2	Steel pins 50g of 0.5g pins	.	.	0.0032	0.0045
502-193-J0520-9	Steel pins 100g of 1g pins	.	.	.	0.0044
502-193-0520-4	Steel pins 100g of 1g pins	.	.	.	0.0043
502-456-J0487-2	Steel pins 100g of 1g pins	.	.	0.0004	0.0023
501-646-0585	Steel pins 100g of 1g pins	.	.	0.0363	0.0022
Part Number	Material and Units	C	S	O	N

**RM LECO COAL and COKE**

certified analysis				50 g units				informational analysis	
Number	Type	S	Volatile	ASH	C	H	N	Heat in BTU	Fixed C
502-452-24100b	Coke	1.30	12.5	0.36	91.7	3.95	3.04	15,437	87.2
502-438-21500c	Coal	5.17	.	.	.	.	.	.	.
502-437-21300c	Coal	2.92	.	.	.	.	.	.	.
502-444-23250a	Coal	2.49	37.6	8.89	77.3	5.13	1.53	13,805	53.5
502-436-21150c	Coal	1.45	.	.	.	.	.	.	.
502-443-23100c	Coal	0.97	44.6	8.69	67.9	4.74	1.06	11,677	46.8
502-435-21100d	Coal	0.95	.	.	.	.	.	.	.
502-434-21075c	Coal	0.80	.	.	.	.	.	.	.
502-433-21025c	Coal	0.24	.	.	.	.	.	.	.

**RM LECO ORGANIC COMBUSTION SAMPLES**

Part Number	Material and Units	C %	S %	BTU	ppm Hg
774-208-150-1023	Benzoic Acid 50 g of 1 g tablets	.	.	11,371	.
774-208-150-1024	Benzoic Acid 50 g of 1 g tablets	.	.	11,374	.
502-813-1001	FLY ASH 20g	1.18	1.19	.	0.42
502-813-1000	FLY ASH 20g	0.636	1.44	.	0.27

**RM LECO CALCIUM OXALATE WEIGHT LOSS SAMPLE**

50 g units

Part Number	Temp	% Loss	Temp	% Loss	Temp	% Loss
502-091	200° C	12.3 H <sub>2</sub> O	450° C	19.2 CO	850° C	30.1 CO <sub>2</sub>

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Part Number	Material and Units	C	S	O	N	H
502-101	DURENE 10g	89.49	.	.	.	10.51
502-203	STEARIC ACID 5g	75.99	.	11.25	.	12.76
501-053	ACETANILIDE 10g	71.09	.	0.12	10.36	6.71
502-641	PHENYLALANINE 5g	65.43	.	.	8.48	6.71
502-642	PHENYLALANINE 50g	65.43	.	.	8.48	6.71
508-150	NICOTONIC ACID	~58	nominal values shown		~11	~4
502-272-1005	CORN GLUTEN 50g	52.29	0.933	.	11.35	7.13
502-272-1006	CORN GLUTEN 50g	51.87	0.907	.	11.18	7.09
502-209	SULFAMETHAZINE 5g	51.78	11.52	11.50	20.13	5.07
502-298	SULFAMETHAZINE 25g	51.78	11.52	11.50	20.13	5.07
502-055-1027	ORCHARD LEAVES 20g	51.37	0.159	.	2.00	6.44
502-205	CAFFEINE 5g	49.48	.	16.48	28.85	5.19
501-048	POTASSIUM BIPHTHALATE 20g	47.05	.	0.31	.	2.47
502-082-1012	TOBACCO LEAVES 20g	46.67	0.61	.	2.54	6.28
502-276-1003	OAT MEAL 50g	45.85	0.253	.	2.77	6.67
502-274-1010	WHEAT FLOUR 50g	45.26	0.205	.	2.69	6.47
502-277-1007	BARLEY 50g	45.20	0.139	.	1.69	6.42
502-275-1005	RYE FLOUR 50g	44.52	0.165	.	2.05	6.30
502-273-1016	ALFALFA 50 g	44.5	0.344	.	3.74	5.88
502-278-1008	RICE FLOUR 50g	44.33	0.095	.	1.14	6.43
501-441	SUCROSE 50g	42.10	.	51.42	.	6.48
501-046	SUCROSE 20g	42.10	.	.	.	6.48
502-092-1054	EDTA 50 g	41.07	.	.	9.57	5.55
502-092-1053	EDTA 50g - last of stock	41.04	.	.	9.57	5.56
502-092-250-1053	EDTA 250g	41.04	.	.	9.57	5.56
502-204	DINITROBENZOIC ACID 5g	39.63	.	45.26	13.21	1.90
502-211	GLYCINE 50g	32.00	.	42.63	18.66	6.71
502-207	CYSTINE 5g	29.99	26.69	26.63	11.66	5.03
502-309-1006	SOIL 65g	12.26	0.218	.	1.03	.
501-034	CALCIUM CARBONATE 50g	12.00	.	.	.	.
502-491-1000	ORE TAILINGS 25g	11.3	11.0	.	.	.
502-309-1005	SOIL 65g	8.92	0.088	.	0.77	.
502-372-1000	ORE TAILINGS 25g	7.26	3.56	.	.	.
502-320-1005	ORE TAILINGS 25g	5.85	3.60	.	.	.
502-320-1004	ORE TAILINGS 25g	5.60	4.00	.	.	.
502-030-1050	SYNTHETIC CARBON 50g	5.00	.	.	.	.
502-308-1010	SOIL 65g	2.77	0.031	.	0.233	.
502-319-1009	ORE TAILINGS 25 g	1.87	1.22	.	.	.
502-062-1013	SOIL 65g	1.26	0.016	.	0.120	0.39
502-029-1087	SYNTHETIC CARBON 50 g	1.01	.	.	.	.
502-630-1000	SYNTHETIC CARBON 50g	0.53	.	.	.	.
502-630-1001	SYNTHETIC CARBON 50g	0.53	.	.	.	.
502-318-1007	ORE TAILINGS 25g	0.36	3.38	.	.	.
502-632-1001	SYNTHETIC CARBON 50g	0.14	.	.	.	.
501-561-1046	SOY FLOUR 250 g	.	.	.	9.74	.
501-561-1045	SOY FLOUR 250 g	.	.	.	9.35	.
501-561-1044	SOY FLOUR 250g	.	.	.	8.94	.
501-563-1011	CORN FLOUR 250g	.	.	.	1.46	.
502-085	ZINC SULFIDE 50g	.	32.91	.	.	.