

## Laser Gold spectral reflectance from 0.250 to 12 micrometers

**Instrument:**  
 SPECTRAFIRE  
 Resolution = 32 cm  
 Scan per run = 50  
 Mirror velocity = 0.3165  
 Aperture setting = 23  
 Spectral range = 3360 to 815 cm



**AZ TECHNOLOGY**  
 7047 OLD MADISON PIKE, SUITE 300  
 HUNTSVILLE, ALABAMA 35806  
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Measured by: David Crandall

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Wave Length	Hemispherical	Wave Length	Hemispherical	Wave Length	Hemispherical	Wave Length	Hemispherical	Wave Length	Hemispherical
Micron	Reflectance	Micron	Reflectance	Micron	Reflectance	Micron	Reflectance	Micron	Reflectance
12.23	99.10	6.11	98.51	4.08	98.38	3.06	98.47	1.133	98.35
12.00	99.18	6.06	98.34	4.05	98.35	3.04	98.29	1.1	98.33
11.78	99.05	6	98.39	4.03	98.5	3.03	97.99	1.067	98.07
11.57	99.01	5.95	98.71	4	98.57	3.01	98.18	1.033	98.03
11.37	99.11	5.89	98.79	3.98	98.55	3	98.46	1	97.95
11.18	99.10	5.84	98.68	3.95	98.61	2.99	98.64	0.98	97.93
10.99	99.08	5.79	98.67	3.93	98.65	2.8	99.02	0.96	97.97
10.80	99.26	5.74	98.54	3.9	98.61	2.75	98.94	0.94	98.01
10.63	99.34	5.69	98.42	3.88	98.61	2.7	99.36	0.92	97.9
10.45	99.28	5.64	98.54	3.86	98.74	2.65	99.13	0.9	97.77
10.29	99.02	5.59	98.59	3.84	99.02	2.6	99.1	0.88	97.93
10.13	98.90	5.54	98.62	3.81	98.9	2.55	99.25	0.86	97.8
9.97	99.17	5.49	98.92	3.79	98.62	2.5	99.13	0.84	97.79
9.82	99.33	5.45	99.06	3.77	98.56	2.467	99.21	0.82	97.77
9.67	99.27	5.4	98.81	3.75	98.55	2.433	99.23	0.8	97.61
9.53	99.10	5.36	98.76	3.73	98.57	2.4	99.2	0.78	97.5
9.39	98.99	5.31	98.65	3.7	98.6	2.367	99.18	0.76	97.38
9.26	99.01	5.27	98.74	3.68	98.61	2.33	99.19	0.74	97.23
9.13	98.95	5.23	98.82	3.66	98.5	2.3	98.95	0.72	96.97
9.00	98.75	5.19	98.63	3.64	98.41	2.267	99	0.7	96.69
8.88	98.80	5.14	98.59	3.62	98.41	2.233	98.93	0.68	96.12
8.76	98.98	5.1	98.65	3.6	98.41	2.2	98.96	0.66	95.63
8.64	99.03	5.06	98.62	3.58	98.41	2.167	99.06	0.64	94.31
8.53	98.99	5.02	98.61	3.56	98.38	2.133	99.12	0.62	93.01
8.42	98.93	4.99	98.61	3.54	98.31	2.1	99.11	0.6	91.43
8.31	98.89	4.95	98.68	3.52	98.26	2.067	98.98	0.58	88.4
8.20	98.89	4.91	98.73	3.5	98.36	2.033	98.88	0.56	84.33
8.10	98.89	4.87	98.72	3.48	98.5	2	98.74	0.54	76.96
8.00	98.85	4.84	98.75	3.47	98.54	1.967	98.69	0.52	63.67
7.90	98.83	4.8	98.66	3.45	98.5	1.933	98.61	0.5	46.34
7.81	98.87	4.77	98.58	3.43	98.41	1.9	98.47	0.48	39.43
7.72	98.95	4.73	98.63	3.41	98.21	1.867	98.37	0.46	37.75
7.63	98.87	4.7	98.68	3.39	98.04	1.833	98.43	0.45	38.07
7.54	98.81	4.66	98.76	3.38	98.2	1.8	98.48	0.44	37.26
7.45	98.93	4.63	98.72	3.36	98.4	1.767	98.64	0.43	37.31

7.37	98.89	4.6	98.54	3.34	98.42	1.733	98.6	0.42	37.53
7.28	98.89	4.56	98.62	3.32	98.57	1.7	98.58	0.41	37.71
7.20	98.95	4.53	98.68	3.31	98.61	1.667	98.59	0.4	37.34
7.12	99.00	4.5	98.78	3.29	98.43	1.633	98.56	0.39	37.14
7.05	98.87	4.47	98.78	3.27	98.37	1.6	98.66	0.38	37.01
6.97	98.84	4.44	98.66	3.26	98.29	1.567	98.59	0.37	36.21
6.90	98.77	4.41	98.46	3.24	98.17	1.533	98.58	0.36	35.67
6.82	98.56	4.38	98.45	3.22	98.38	1.5	98.56	0.35	34.89
6.75	98.60	4.35	98.66	3.21	98.55	1.467	98.53	0.34	34.69
6.68	98.48	4.32	98.62	3.19	98.69	1.433	98.44	0.33	34.86
6.61	98.52	4.29	98.39	3.18	98.67	1.4	98.38	0.32	35.35
6.55	98.87	4.26	98.38	3.16	98.43	1.367	98.33	0.31	35.97
6.48	98.97	4.24	98.34	3.15	98.25	1.333	98.41	0.3	36.17
6.42	98.81	4.21	98.2	3.13	98.24	1.3	98.5	0.29	36.23
6.35	98.9	4.18	98.2	3.12	98.3	1.267	98.51	0.28	36.38
6.29	98.82	4.15	98.4	3.1	98.24	1.233	98.42	0.27	35.78
6.23	98.69	4.13	98.75	3.09	98.11	1.2	98.42	0.26	34.19
6.17	98.64	4.1	98.64	3.07	98.22	1.167	98.32	0.25	32.88

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