

Precious Metals assay using **ElvaX Mini**

- Fast accurate analysis
- Results in % and Karats
- CCD camera for precise samples positioning



Precious Metals assay using ElvaX Mini

Precious metals assay has never been so easy. With ElvaX Mini you always have fast and accurate results at your fingertips at a fraction of the time and cost of traditional methods. Non-destructive screening of jewelry, ingots and bars, precious metal scrap and ores etc. is performed with just 0.05% error within mere seconds. The result can be presented both in % and karats. Built-in camera and small x-ray spot allow for accurate positioning of analyzed objects. ElvaX Mini is capable of measuring plating thickness and plating composition. The modified Fundamental Parameters Technique software provides fast, high precision analysis of Gold, Silver, Platinum, Palladium, and other precious metal based alloys of any shape without usage of calibration standards.



Repeatability test for 14 karat gold

	Au	Ag	Cu
1	58.55	8.21	33.24
2	58.59	8.18	33.23
3	58.63	8.20	33.17
4	58.60	8.16	33.24
5	58.56	8.19	33.25
6	58.61	8.22	33.17
7	58.64	8.18	33.18
8	58.58	8.17	33.25
9	58.59	8.24	33.17
10	58.63	8.16	33.21
Average	58.60	8.19	33.21
St.Dev.	0.03	0.03	0.04

№	Au%		Ag%		Cu%		Zn%		Ni%	
	certified	measured	certified	measured	certified	measured	certified	measured	certified	measured
1	91.68±0.08	91.65	4.14±0.12	4.2	4.14±0.08	4.15				
2	85±0.08	85.06	7.45±0.09	7.51	7.51±0.13	7.43				
3	78.99±0.08	78.93	5.97±0.12	6.05	15.03±0.13	15.02				
4	74.99±0.04	75.03	14.95±0.09	15.01	10.02±0.1	9.96				
5	70.99±0.07	70.97	10.09±0.19	10.15	18.97±0.13	18.88				
6	64.99±0.06	65.05	24.92±0.20	25	10.02±0.11	9.95				
7	58.50±0.05	58.52	11.50±0.15	11.42	29.99±0.18	30.06				
8	49.98±0.05	50.03	9.98±0.14	10.06	39.85±0.12	39.91				
9	44.02±0.08	43.95	35.01±0.17	35.11	20.91±0.13	20.94				
10	37.50±0.06	37.52	7.56±0.1	7.5	55.06±0.3	54.98				
11	75.00±0.06	75.05	14.86±0.15	14.79	4.01±0.08	3.98	4.00±0.13	4.09	2.04±0.06	2.09
12	54.99±0.06	54.94	26.89±0.18	27	15.97±0.1	16.05	0.52±0.03	0.52	1.51±0.09	1.49
13	35.00±0.06	35.01	9.01±0.15	9.1	40.01±0.28	39.89	7.94±0.14	7.99	8.00±0.16	8.01

The results of analysis for Standard Reference Materials

