



**JINYIBO INSTRUMENT**  
Precise Instruments, Perfect Experience



# P9800

Energy Dispersion X-Ray Fluorescence Analyzer



Direct quantification of rocks, ores  
Fast positive analysis to quantify a wide variety of minerals



# P9800

## Energy Dispersive X-Ray Fluorescence Analyzer

P9800 Energy Dispersive X-ray Fluorescence Spectrometer is the most advanced all-element analytical instrument. The device with different measurement modes for light and heavy elements can accurately measure all the elements within F–U and finish measurement of more than 30 elements at the same time.

### Application

The analysis if a wide range of mineral materials are covered with the P9800 such as :

- Steel Industry: Pig iron, slag, mineral, ore, sinter, agglomerate, pellets, iron powder, iron ore, etc.
- Refractory Material: mainly including high siliceous clay, high alumina bauxite, high magnesia, high chromia, corundum and other refractories.
- Ceramic Industry: raw material detection.
- Mining Industry: aluminum samples, lead-zinc ores(Pb-Zn mine), cooper ores(Cu mine), tinstone (Sn mine), silver ores(Ag mine), molybdenum ores(Mo mine), etc.
- Geological Industry: geological prospecting, rock ore powder samples determination.

### Your Material

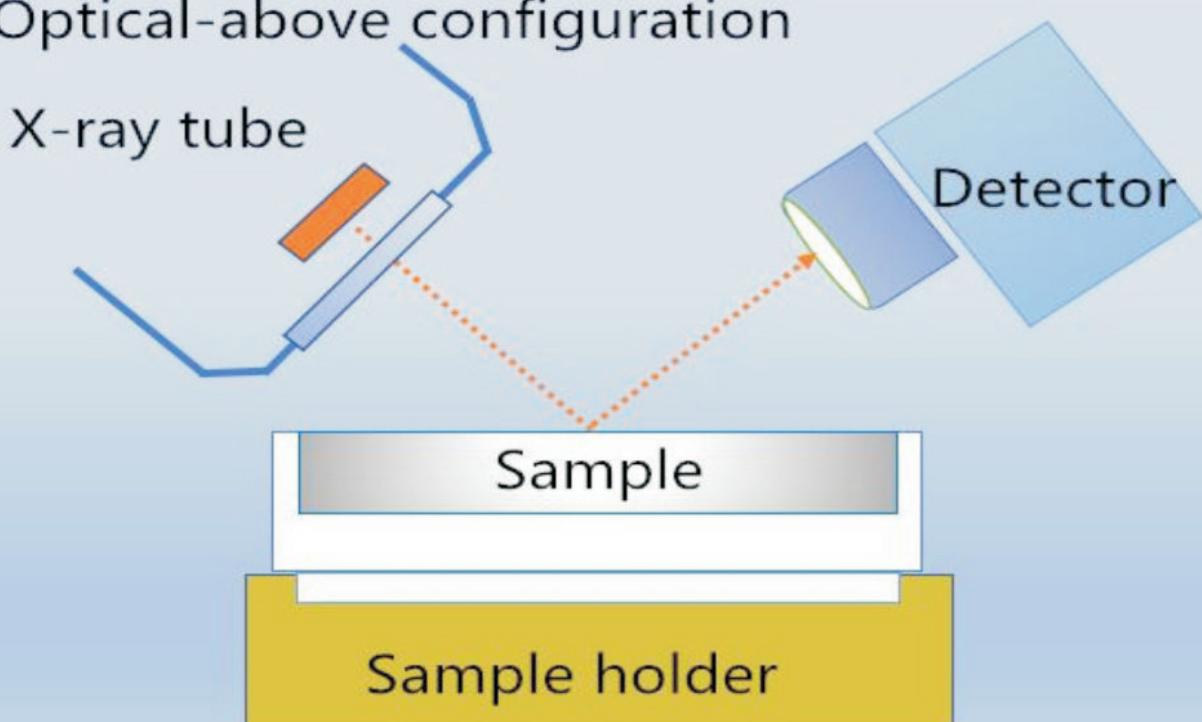
Highly flexible analytical tools suitable for a wide range of elements

H	Z Possible to analyze with P9800																	He
Li	Be																	
Na	Mg																	
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	
Cs	Ba	L	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	
Fr	Ra	A																
L	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu			
A	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr			

# Advantage

Model	P9800	Competitors	Advantage
Structure	Optics-above configuration	Optical-below configuration	<p>Optics-above configuration is suitable for powder samples, especially the light elements Na, Mg, Al, Si, etc. This structure can prevent powder samples from dusting and collapsing the detector.</p> <p>Optics-below configuration is suitable for lump samples such as Alloy and RoHS analysis, but it is not suitable for powder samples analysis.</p>
Resolution	100ev	145ev	100ev is better than 145ev
Analysis accuracy	0.023%	0.05%	P9800 EDXRF is better
Vacuum	10 <sup>-2</sup> pa in 10 seconds, It can guarantee no air leakage for 30 minutes	50 pa, Simultaneous evacuation and analysis	P9800 EDXRF uses a vacuum system, which has the characteristics of high vacuum and stability, and it has absolute advantages for the analysis of light elements Na, Mg, Al, Si.
Detection limit	Na≤0.1%, Mg&Al≤0.01%, P, S, Cl, K, Ca, Ti, V, Cr, Mn, Fe≤0.001%. Cu, Pb, Zn, As≤0.0001%, etc.	Na≤1%, Mg&Al≤0.1% P, S, Cl, K, Ca, Ti, V, Cr, Mn, Fe≤0.001%. Cu, Pb, Zn, As≤0.0001%, etc.	P9800 EDXRF is better

## Optical-above configuration



## Analysis Flow Chart

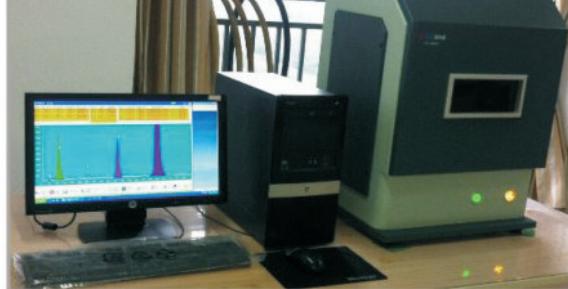
Step 1: Sample Preparation → Grind the solid samples into powder



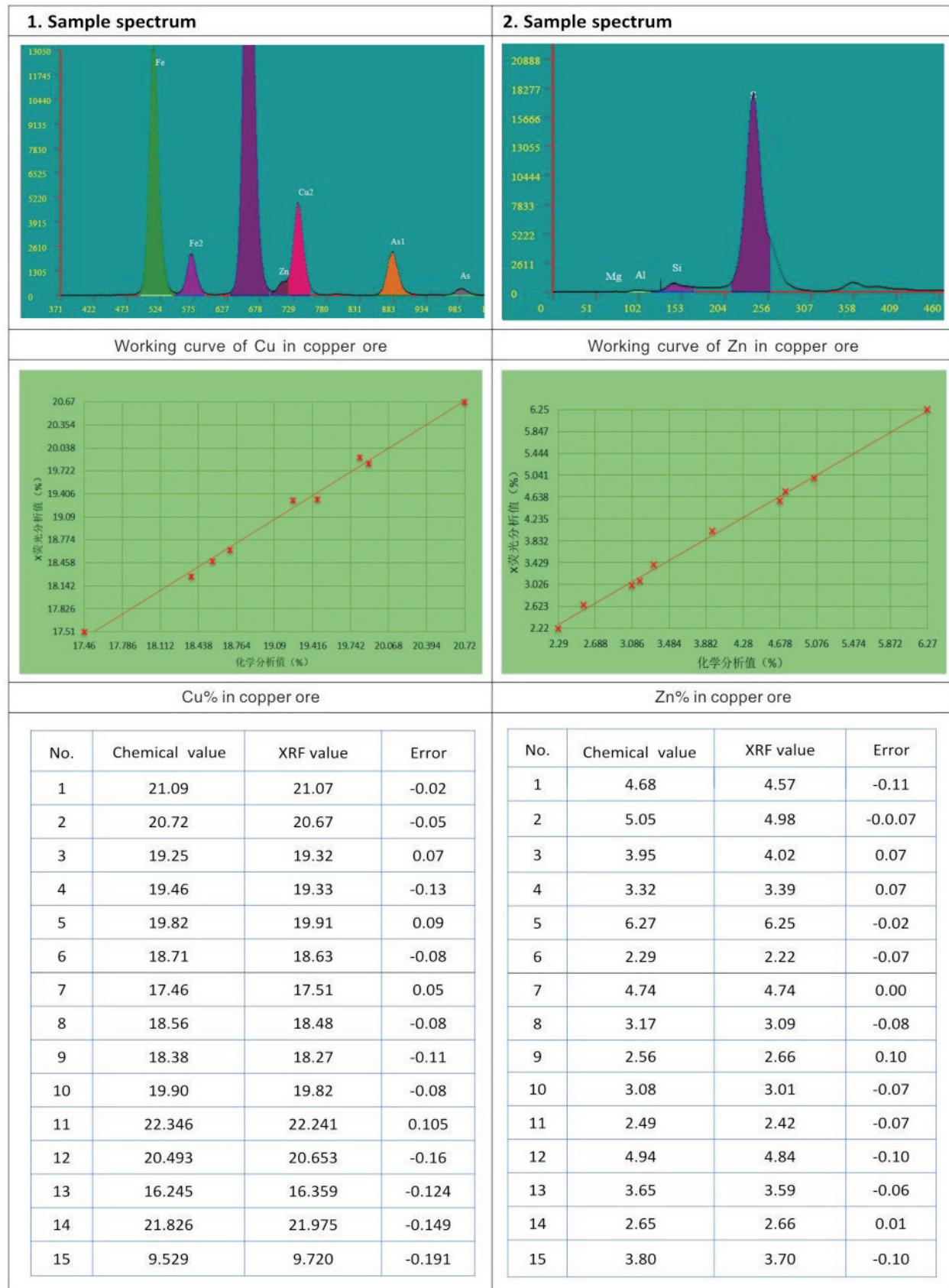
Step 2: Tablet the powder samples

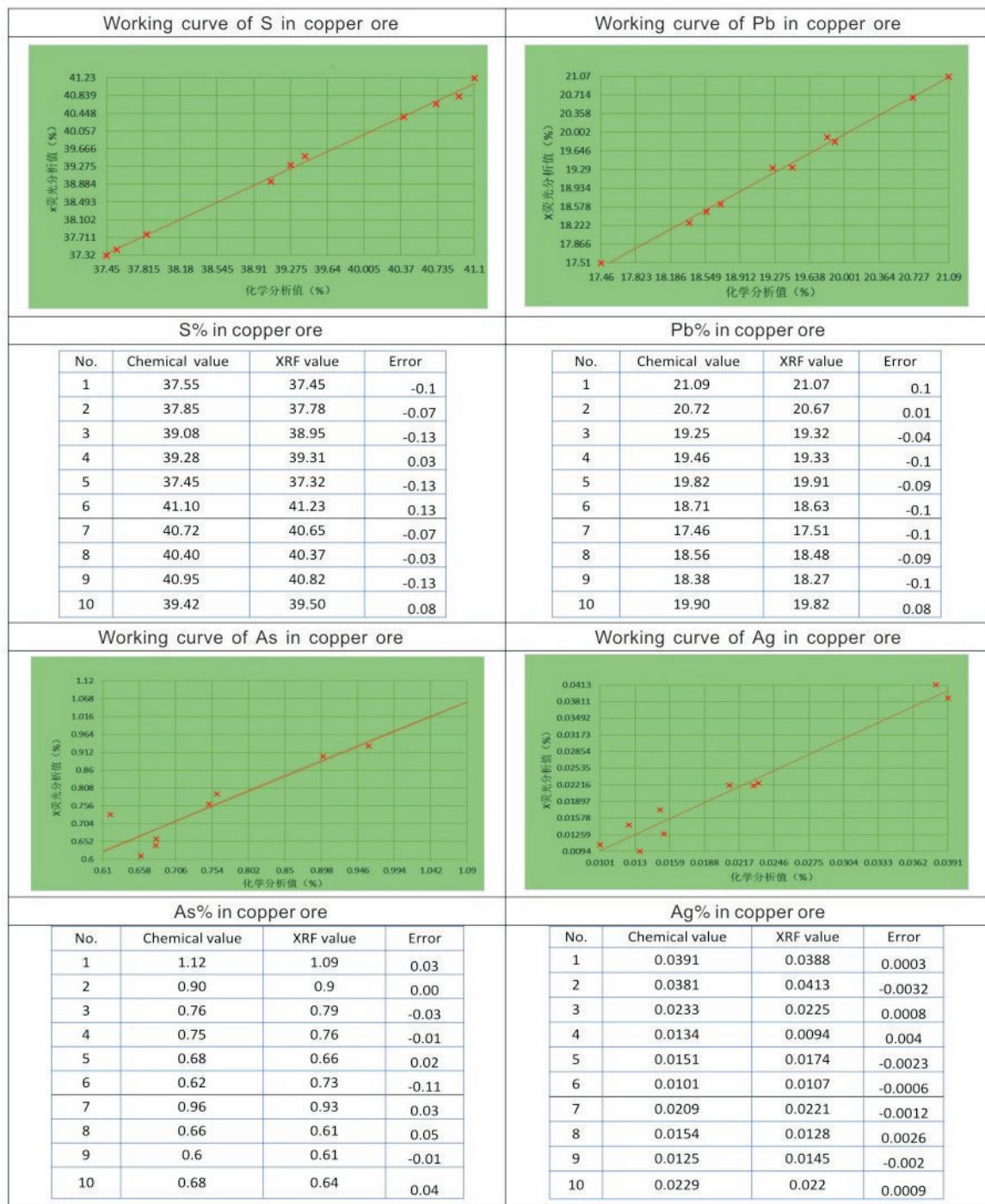


Step 3: Analysis the prepared samples by P9800 EDXRF



## Analysis case of copper ore





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