



better analysis counts



HD Prime

Series: 402608-01
USD Price: Contact XOS

Analysis for Lead and Other Toxic Elements in Consumer Products

HD Prime complies with ASTM F2853, F963 and F2617 methods, and delivers exceptional analysis of lead and other toxic elements in toys and children's products. Powered by HDXRF, HD Prime can measure the concentration of elements in a product's paint and base material separately. This analytical technique was developed specifically to meet the CPSIA's current and future regulatory limits, is non-destructive to the product, and does not require costly and time-consuming sample preparation – reducing waste and preserving the audit trail. HDXRF technology supports industry and government agencies responsible for ensuring product safety.

Easy to use

Ease of use enables testing in factory and laboratory environments with minimal training.

Precise and efficient

The concentration of the toxic elements in the paint and the base materials are both reported separately.

Multi-Element Analysis

Multi-element detection in toys and children's products for compliance with regulatory requirements of the CPSIA; Pb, Sb, As, Ba, Cd, Cr, Hg, Se, Br, and Cl

For use in multiple application areas

For use in factory production and lab environments, third-party test labs, retail, and regulatory applications.

Hassle-free sample prep

eliminates time-consuming paint removal and digestion steps, is nondestructive to the product, and won't degrade the audit trail.

Specifications

Calibration curves:	Fundamental Parameters
Catalysts:	No
Concentration:	In ppm: >100-450
Consumable/Utility Gas:	None

Dimensions: Depth: 26.0 in / 66.0 cm
Dimensions: Height: 32.0 in / 81.2 cm
Dimensions: Width: 36.0 in / 91.4 cm
Measurement Time: 120-660s
Method Name: ASTM F963, F2853 and F2617
Range: Plastic Matrix (see brochure for full list of elements and LOD)

Al / 1.5ppm

Cl / 40.0ppm

Cr / 1.0ppm

Mn / 1.0ppm

Co / 1.0ppm

Ni / 1.0ppm

Cu / 1.0ppm

Zn / 1.0ppm

As / 1.0ppm

Se / 1.0ppm

Br / 0.3ppm

Sr / 1.0ppm

Cd / 2.0ppm

Sn / 5.0ppm

Sb / 6.0ppm

Ba / 5.0ppm

Ta / 1.0ppm

W / 0.5ppm

Au / 0.5ppm

Hg / 1.0ppm

Pb / 1.0ppm

Repeatability: Paint layer on plastic or metal

ppm - >100-450

$r - 1.1272 \cdot X0.7282$

Reproducibility: Paint layer on plastic or metal

ppm - >100-450

$0.5536 \cdot X0.9217$

Sample Matrix: Plastic / PVC, Metal, Wood, Glass, Textiles

Specific Technology: HDXRF

Type:	Benchtop
Weight:	240 lbs / 110 kg
XRF Film Type:	NA (Prolene support for thin films)

What's in the box?

Quick-Start Guide, Operations Manual, radiation survey, validation samples kit, pack of 100 prolene sample film, pack of 100 sample cups, and pack of 50 foam tipped applicators.