



# MICROMATTER™

## XRF CALIBRATION STANDARDS

### Ordering Information

For over 50 years, MICROMATTER™ has earned a reputation for quality. Today, leading institutions in over 50 countries use MICROMATTER™ standards to calibrate their XRF systems. MICROMATTER™ standards are most often used for instrument calibration and quality control in the fields of air pollution and thin coatings. They are also useful as a source of pure element spectra for use in background subtraction routines, and as a routine check of x-ray detector resolution and overall system performance.

All MICROMATTER™ standards are prepared by vacuum deposition resulting in a highly uniform deposit. In most cases, the standards present an element free of interferences and are thin enough to ignore thickness effects. Where it is necessary to use compounds or semi-compounds, the companion elements are chosen to minimize interference and provide stability. While high purity is not critical in these thin films, materials used are 99.9% pure or better.

#### Certified XRF Calibration Standards: XRF Standards are NIST Traceable reference material

Certification is provided for each calibration standard. The areal density of each deposit is determined by precision weighing and further tested for precision by Spectrometry. Our nominal 50 µg/cm<sup>2</sup> thickness standards are certified to ±5%. Custom thicknesses are also available. Please request a quotation.

**BACKINGS** – The available backings are chosen for minimum thickness, contamination, and manufacturing suitability. When ordering, please specify your preferred backing.

Code	Backing	Comments
N	Nuclepore® polycarbonate aerosol membranes	0.4 micron pore size, Approx. 1mg/cm <sup>2</sup>
M6.3	6.3 micron Mylar® polyester film	Approx. 1mg/cm <sup>2</sup>
M3.5s	3.5 micron Mylar® polyester film	Note: a 10% surcharge applies to this film.

One blank backing is provided at no charge. Additional blanks may be ordered for \$20 each.

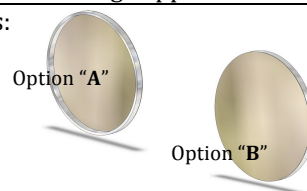
**MOUNTING OPTIONS** – Please specify your preferred mounting option(s) when ordering.

#### I. Ring Mounts (Thickness is about 1.5mm)

Code	Nominal O.D.s	Nominal I.D.s	Comments
A25 or B25s	25mm	19mm	
A32 or B32s	32mm	25mm	
A36 or B36s	36mm	29mm	
A47s or B47s	47mm	39mm	Note: a 10% surcharge applies to this size.

Note: For ring mounts, there are two options for the direction that the deposit faces:

- Option “A” – Deposit facing the ring. This is our default option as it protects the deposit from abrasion.
- Option “B” – Deposit facing away from the ring. This option is not recommended unless it is specifically required to suit your calibration needs. Note: a 10% surcharge applies for this option.



#### II. MICROMATTER™ 2”x2” Mounts (5cm x 5cm polystyrene mounts with circular apertures)

Code	Nominal Backing Size	Nominal Open Area Size	Comments
SM37	37mm	32mm	
SM47s	47mm	42mm	Note: a 10% surcharge applies.

**List of Elements** – Please see our **Order Form** for a list of elements available .

(10/01/01)

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