

Out of Stock - Item is not available at this time - X-Ray Powder Diffraction Intensity Set (Quantitative Powder Diffraction Standard)

| | |
|-----------------|-----------------------------------|
| Art. ID | NIST-674b |
| Unit | 10 g (powder) |
| Deliverydetails | No Dangerous Good /not restricted |

Description

This Standard Reference Material (SRM®) consists of four oxide powders intended primarily for use as internal standards for quantitative X-ray diffraction analysis. The powders are ZnO (wurtzite structure), TiO₂ (rutile structure), Cr₂O₃ (corundum structure), and CeO₂ (fluorite structure). These four oxides offer a range of linear attenuations for Cu-Kα radiation: 279 cm⁻¹, 536 cm⁻¹, 912 cm⁻¹, and 2203 cm⁻¹, respectively, that allow the user to nominally match that of standard to the unknown in order to minimize the effects of microabsorption. A unit of NIST-674b consists of approximately 10 g of each powder, bottled in an argon atmosphere. /// Sample value(s) - please ask for current certificate.

| Text/Information | Analyte/Parameter | CAS number | Concentration/Value | Unit | Method | Source |
|------------------------|--------------------------------|------------|---------------------|------|--------|--------|
| Certified Phase Purity | ZnO | | 95,28 ± 0,64 | % | | |
| Mass Fractions | | | | | | |
| Certified Phase Purity | TiO ₂ | | 89,47 ± 0,62 | % | | |
| Mass Fractions | | | | | | |
| Certified Phase Purity | Cr ₂ O ₃ | | 95,91 ± 0,60 | % | | |
| Mass Fractions | | | | | | |
| Certified Phase Purity | CeO ₂ | | 91,36 ± 0,55 | % | | |
| Mass Fractions | | | | | | |