

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						