

**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), TiO<sub>2</sub> (rutile structure), Cr<sub>2</sub>O<sub>3</sub> (corundum structure), and CeO<sub>2</sub> (fluorite structure). These four oxides offer a range of linear attenuations for Cu-Kα radiation: 279 cm<sup>-1</sup>, 536 cm<sup>-1</sup>, 912 cm<sup>-1</sup>, and 2203 cm<sup>-1</sup>, 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 <sub>2</sub>		89,47 ± 0,62	%		
Mass Fractions						
Certified Phase Purity	Cr <sub>2</sub> O <sub>3</sub>		95,91 ± 0,60	%		
Mass Fractions						
Certified Phase Purity	CeO <sub>2</sub>		91,36 ± 0,55	%		
Mass Fractions						