

## **Alumina plate - Instrument response Standard for X-Ray Powder Diffraction**

Art. ID	NIST-1976c
Unit	1 disc
Deliverydetails	No Dangerous Good /not restricted

### Description

This Standard Reference Material (SRM) consists of a sintered alumina disc intended for the calibration of X-ray powder diffraction equipment with respect to line position and intensity as a function of  $2\theta$  angle. The solid form of the SRM eliminates any variability in intensity measurements introduced by the sample loading procedure. A unit of NIST-1976c consists of a sintered alumina disc approximately 25.6 mm in diameter by 2.2 mm in thickness. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Reflection, (012)	Relative Intensity		23,62			
Reflection, (104)	Relative Intensity		100			
Reflection, (113)	Relative Intensity		37,16			
Reflection, (024)	Relative Intensity		20,68			
Reflection, (116)	Relative Intensity		87,83			
Reflection, (300)	Relative Intensity		12,43			
Reflection, (1.0.10) & (119)	Relative Intensity		72			
Reflection, (0.2.10)	Relative Intensity		13,42			
Reflection, (226)	Relative Intensity		8,22			
Reflection, (2.1.10)	Relative Intensity		16,65			
Reflection, (324) & (0.1.14)	Relative Intensity		26,37			
Reflection, (1.3.10)	Relative Intensity		15,29			
Reflection, (146)	Relative Intensity		13,05			
Reflection, (4.0.10)	Relative Intensity		11,04			
a	Lattice parameter		0,4759092	nm		
c	Lattice parameter		1,299337	nm		