

Single Crystal Diffractometer Alignment Standard - Ruby Spheres

Art. ID	NIST-1990
Unit	3 spheres
Deliverydetails	No Dangerous Good /not restricted

Description

Standard Reference Material (SRM®) 1990 is intended primarily for use as an alignment standard for single crystal diffractometry. One unit consists of three chromium-doped single crystal aluminum oxide (ruby) spheres. The spheres are nominally 152 mm in diameter with 1.3 mm sphericity. The spherical geometry was chosen to facilitate alignment and to avoid corrections for absorption. These spheres produce reflections at high angles for copper and molybdenum radiation. The space group is R3c. Certified lattice parameters of NIST-1990 at 25 °C are: /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
a	Lattice parameter		0,476080 ± 0,000029	nm		
c	Lattice parameter		1,299568 ± 0,000087	nm		