

# Certificate of analysis

Product No.: 36204

Product: Hafnium(IV) oxide, 99.9% (metals basis excluding Zr),  
Zr <0.5%

Lot No.: X12D010

Al	7	As	< 50	Be	< 14
Cd	< 6	Co	< 9	Cr	< 3
Cu	< 4	Fe	19	Ni	< 4
Pb	< 10	Se	< 50	Si	< 23
Ti	< 5	V	< 3	Zr	300

Values given in ppm unless otherwise stated  
X-Ray Diffraction: Major HfO<sub>2</sub> matches PDF 34-104 Monoclinic

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