Certificate of Analysis

Hafnium Oxide (HfO2) Nanopowder
APS: 20 um, Purity: 99.9+%

Components	Contents (ppm)
Li	<0.005
Be	<0.001
B	<0.02
F	<0.05
Na	<0.05
Mg	<0.01
Al	<0.15
Si	<3.4
P	<0.3
S	<0.1
Cl	<0.05
K	<0.05
Ca	<0.05
Ti	<0.06
V	<0.07
Cr	<1.2
Mn	<0.01
Fe	<24
Co	<0.04
Ni	<0.44
Cu	<0.05
Zn	<0.01
Ga	<0.001
Ge	<0.01
As	<0.04
Se	<0.05
Br	<0.05
Sr	<0.05
Y	<0.05
Nb	<0.05
Mo	<0.05
Rh	<0.01
Pd	<0.05
Ag	<0.05
Cd	<0.05

Sn	<0.05
Sb	<0.05
Te	<0.05
I	<0.01
Cs	<0.001
Pr	<0.005
Nd	<0.005
Eu	<0.005
Gd	<0.005
Yb	<0.005
Ta	<13
W	<0.005
Re	<0.01
Os	<0.05
Ir	<0.1
Pt	<0.1
Au	<0.05
Hg	<0.05
Pb	<0.01
Bi	<0.01
Th	<0.001
Zr	0.43wt%

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