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Certificate of analysis

Reference #: HF1995-015/908

Manufacturing date Sep/15/21

Analysis date Sep/17/21

Product name	Hafnium(IV) isopropoxide monoisopropylate, 99% (99.9 % - Hf)				
Ereztech #	HF1995	CAS#	2171-99-5	Purity	99,0% (by gravimetric assay)
Lot/batch #	015/908	Net weight/volume	2000 g	Seal #	N/A
Packaging	3 glass bottles	Storage	moisture sensitive. Shelf life 3 years.		
CofO	Russia				

Analytical results				
Appearance	white crystals			
NMR H1	conforms to structure			
Gravimetric assay	% Hf = 42,60 %(after ignition to oxide)			
ICP	99.9 %			
Impurity weight, ppm	Al	40	Mg	10
	Ca	30	Mn	10
	Co	10	Mo	10
	Cr	30	Nb	12
	Cu	15	Ni	20
	Fe	45	Sn	30