

Hafnium Sputtering Target

Typical Specification Sheet · For RFQ planning and technical discussion

NOT A BATCH CERTIFICATE OF ANALYSIS. The values below are an illustrative typical reference model, not measured results for a production lot and not a shipment acceptance certificate. Actual order specifications and batch CoA values must be confirmed in the quotation and purchase documentation.

Hf	3N	100.0000%	PASS
Material	Nominal grade	Closed composition	Arithmetic checks

Reference product definition

Product	Hafnium Sputtering Target
Material	Hf
Reference grade	3N nominal planning grade (99.9 wt%)
Order-specific details	Planar/rotary configuration, drawing, finished dimensions, tolerances, bonding and backing are per approved quotation; they are not fixed by this reference sheet.

Illustrative typical composition

Values are expressed as weight percent on a closed total-mass basis. They are internally authored planning values and are not copied test data. Total mass basis including Zr. This reference does not use an 'Hf excluding Zr' convention; Hf plus all listed impurities equals 100.0000 wt%.

Constituent	Typical wt%	Equivalent ppm	Status
Hf	99.9000	—	Main balance
Zr	0.0800	800	Typical reference
Fe	0.0050	50	Typical reference
Ti	0.0040	40	Typical reference
O	0.0050	50	Typical reference
C	0.0020	20	Typical reference
N	0.0010	10	Typical reference
Si	0.0010	10	Typical reference
Al	0.0010	10	Typical reference
Other	0.0010	10	Typical reference
Total impurities	0.1000	1,000	Arithmetic checked
COMPOSITION TOTAL	100.0000	—	PASS

ARITHMETIC VALIDATION: Hf 99.9000 wt% + listed impurities 0.1000 wt% = 100.0000 wt%. Individual impurity ppm sum = 1,000 ppm. All checks PASS.

Information to include in an RFQ

- target geometry and drawing/revision
- finished dimensions and tolerances
- required purity basis and controlled impurities
- planar or rotary configuration
- bonding/backing requirement
- quantity and inspection/document requirements

Final suitability depends on the deposition system, process conditions, requested geometry, and agreed acceptance criteria. Request an order-specific quotation and, where applicable, the actual batch CoA before use.