



## Grandview Materials Inc.

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### CERTIFICATE OF ANALYSIS

#### FOR

#### NIOBIUM TUBE WITH 1% ZIRCONIUM

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P/O No.: xxx115	SIZE: 10mm OD x 1mm WT x 1,250mm
LOT No.: HNB 11306228	QUANTITY: 32 PIECE(S)
SPECIFICATION: ASTM B 394 R04261	TEMPER: ANNEALED

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#### 1. CHEMICAL ANALYSIS (% WT)

C	0.0018	Ni	0.0006
N	0.0015	Si	0.0020
O	0.0092	Ti	0.0024
H	0.0010	W	0.0036
Hf	0.0005	Zr	0.9300
Fe	0.0025	Ta	0.0480
Mo	0.0021	Nb	REMAINDER

#### 2. TOLERANCES

DIAMETER ( $\Phi$ 10mm OD) DEVIATION	$\pm 0.003''$
DIAMETER ( $\Phi$ 8mm ID) DEVIATION	$\pm 0.003''$
LENGTH (1,250mm) DEVIATION	$+0.10''/-0.00''$