

Thickness of Zinc Data Results

Measurements:	Washer #1	Washer #2	Washer #3	Washer #4	Washer #5
Outer Diameter, cm	_____	_____	_____	_____	_____
Inner Diameter, cm	_____	_____	_____	_____	_____
Height, cm	_____	_____	_____	_____	_____
Initial Mass, g	_____	_____	_____	_____	_____
Final Mass, g	_____	_____	_____	_____	_____

Calculations:

Mass Change, g	_____	_____	_____	_____	_____
(1) Volume of Zinc, cm ³	_____	_____	_____	_____	_____
(2) Area of Zinc, cm ²	_____	_____	_____	_____	_____
(3) Thickness of Zinc, cm	_____	_____	_____	_____	_____
(4) Thickness of Zinc, atoms	_____	_____	_____	_____	_____

(1) <u>Volume, vi</u>	<u>(vi - vbar)</u>	<u>(vi - vbar)²</u>
Washer #1	_____	_____
Washer #2	_____	_____
Washer #3	_____	_____
Washer #4	_____	_____
Washer #5	_____	_____

Sum of Washers _____ Sum: _____
 Average (vbar) _____

Standard Deviation _____
 CI (98%) single value _____
 CI (98%) mean _____

(2) Area, ai (ai - abar) (ai - abar)²

Washer #1	_____	_____	_____
Washer #2	_____	_____	_____
Washer #3	_____	_____	_____
Washer #4	_____	_____	_____
Washer #5	_____	_____	_____

Sum of Washers _____ Sum: _____
 Average (abar) _____

Standard Deviation _____
 CI (98%) single value _____
 CI (98%) mean _____

(4) Thickness, ti (ti - tbar) (ti - tbar)²

Washer #1	_____	_____	_____
Washer #2	_____	_____	_____
Washer #3	_____	_____	_____
Washer #4	_____	_____	_____
Washer #5	_____	_____	_____

Sum of Washers _____ Sum: _____
 Average (tbar) _____

Standard Deviation _____
 CI (98%) single value _____
 CI (98%) mean _____