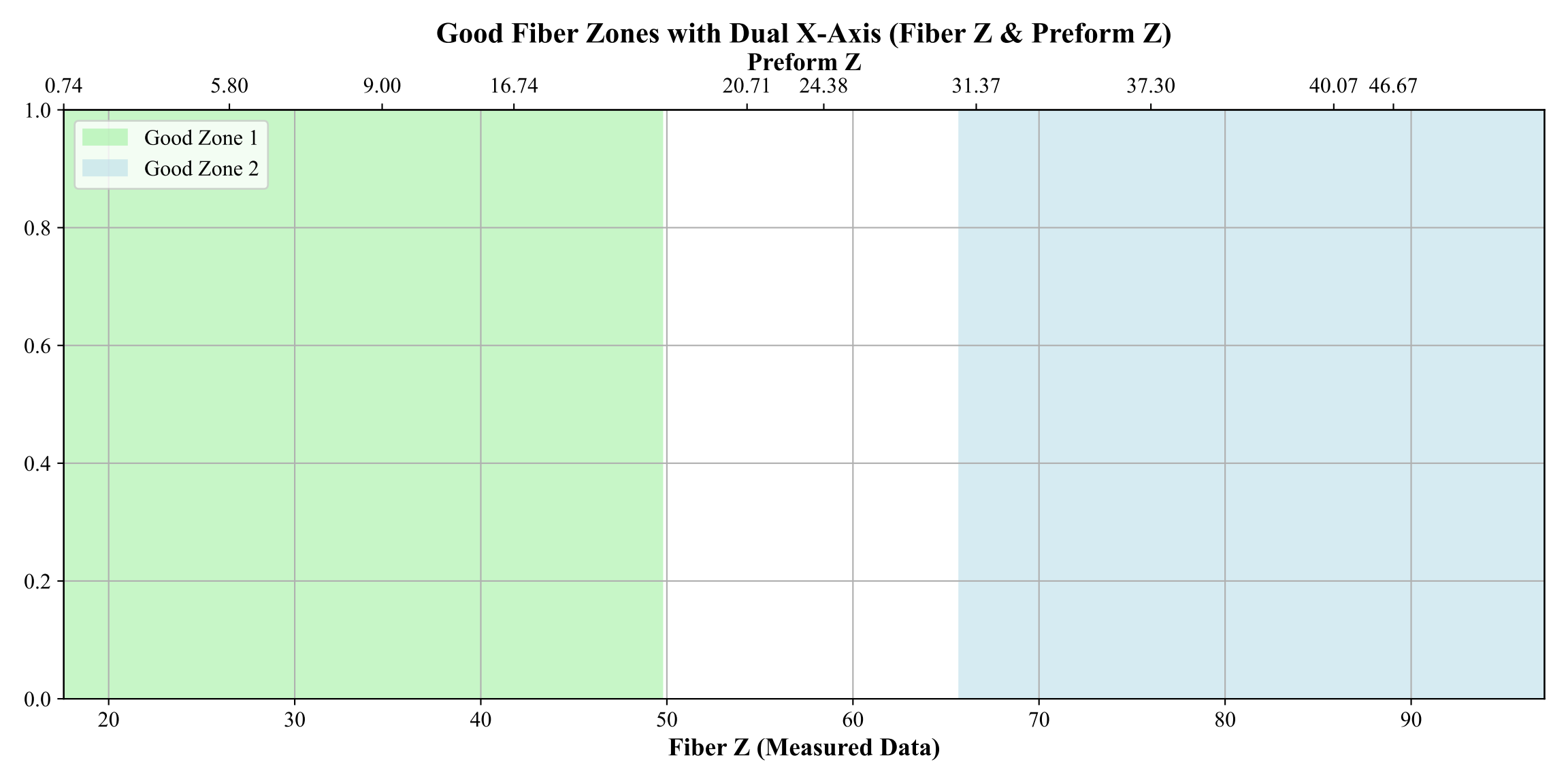
Fiber Name: P0555

Tower Operator: Ohad Forman

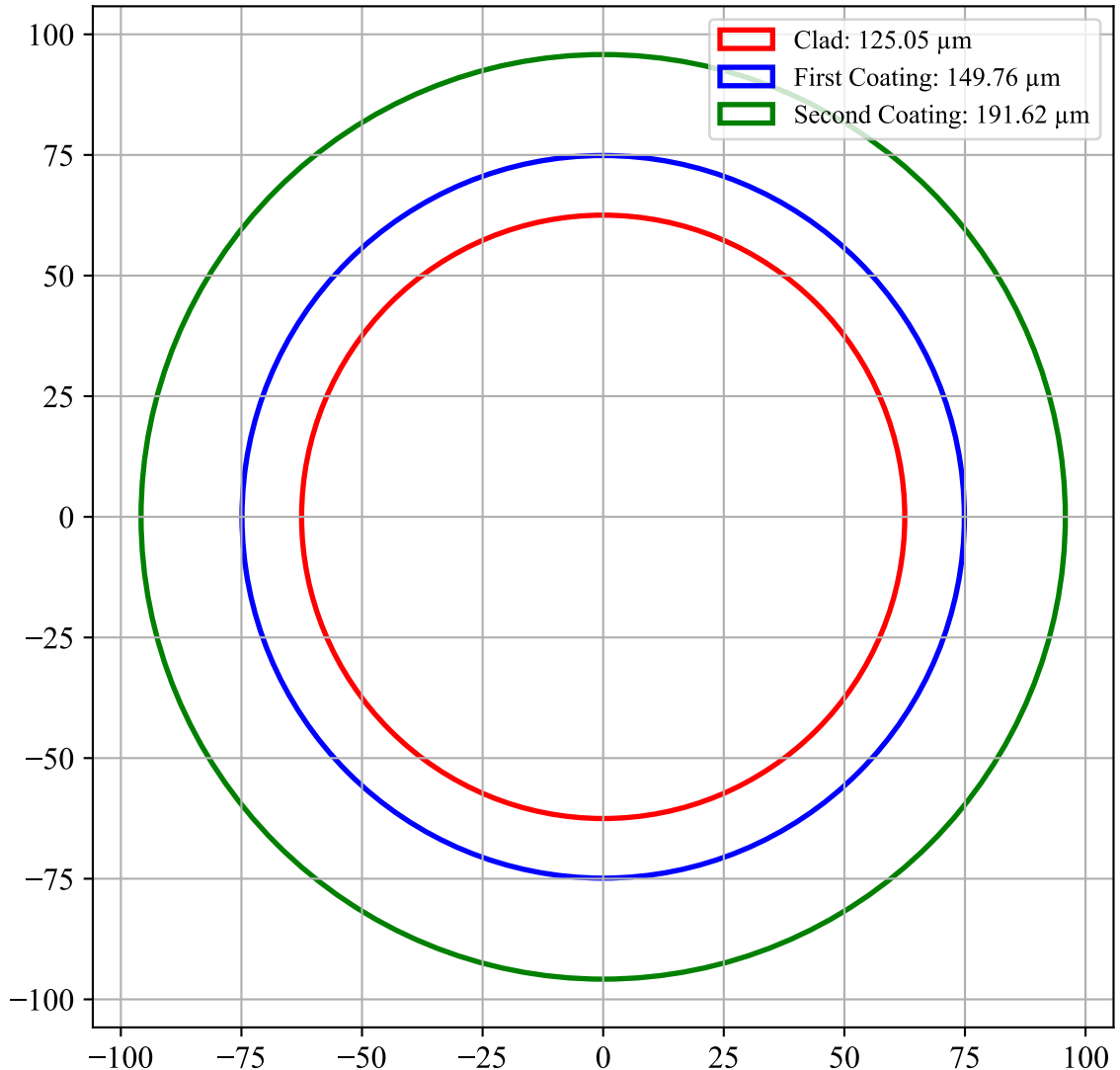
Drawing Date: 22/3/35

Section A - Fiber Good Zones for T&M


Good Fiber Zones with Dual X-Axis (Fiber Z & Preform Z)
Preform Z
0.74
5.80
9.00
16.74
20.71
24.38
31.37
37.30
40.07
46.67
Good Zone 1
Good Zone 2
1.0
0.8
0.6
0.4
0.2
0.0
20
30
40
50
60
70
80
90
Fiber Z (Measured Data)

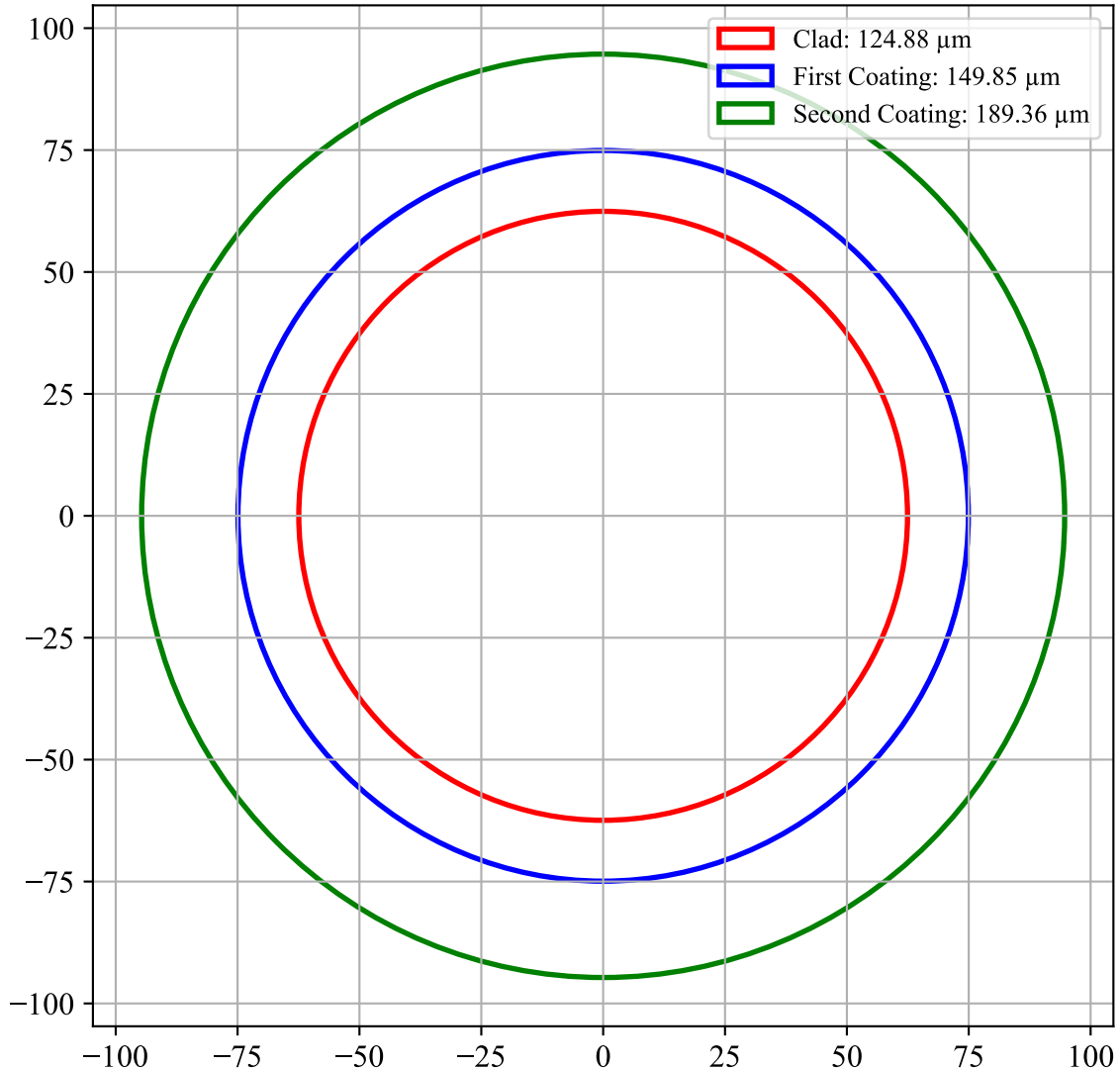
=== Good Fiber Zone 1 (Fiber Z: 17.59 - 49.75) ===
==========
Tension (N): 1.30 ± 0.43
Clad Diameter (µm): 125.05 ± 0.60
First Coating Diameter (µm): 149.76 ± 4.98
Second Coating Diameter (µm): 191.62 ± 5.64
Furnace Temperature (°C): 1867.33 ± 43.20
Cooling Rate (°C/s): 11.89 ± 4.68
UV Power (W): 18.72 ± 5.18

===T&M Section===
New fiber name=_____
Core Diameter(µm) = _____
Clad Diameter(µm) = _____
First coating Diameter(µm) = _____
Second coating Diameter(µm) = _____
Birefringence=_____



=== Good Fiber Zone 2 (Fiber Z: 65.71 - 97.17) ===
==========
Tension (N): 1.21 ± 0.45
Clad Diameter (µm): 124.88 ± 0.53
First Coating Diameter (µm): 149.85 ± 6.46
Second Coating Diameter (µm): 189.36 ± 4.71
Furnace Temperature (°C): 1894.15 ± 56.14
Cooling Rate (°C/s): 12.19 ± 3.94
UV Power (W): 18.30 ± 4.97

===T&M Section===
New fiber name=_____
Core Diameter(µm) = _____
Clad Diameter(µm) = _____
First coating Diameter(µm) = _____
Second coating Diameter(µm) = _____
Birefringence=_____



Section B - Coating Report

Coating Report

Main Coating

Main Coating Die Diameter (µm): 150.0

Main Entry Die Diameter (µm): 160.0

Main Density (g/cm³): 1.05

Main Coating: Coat A

Main Coating Temp (°C): 44.0

Main Viscosity (mPa·s): 1.099

Main Estimated Thickness (µm): 151.02

Secondary Coating

Secondary Coating Die Diameter (µm): 190.0

Secondary Entry Die Diameter (µm): 200.0

Secondary Density (g/cm³): 1.12

Secondary Coating: Coat B

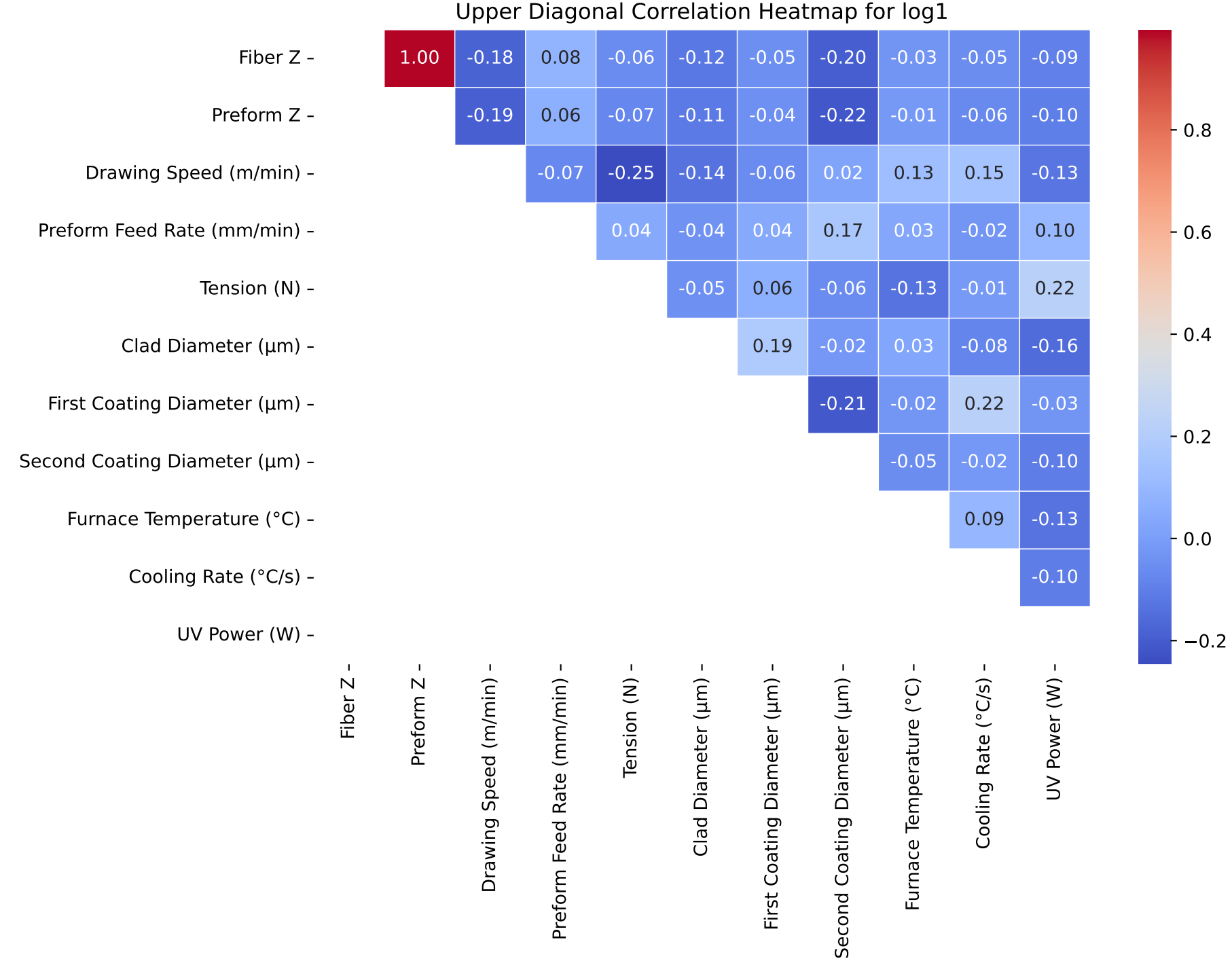
Secondary Coating Temp (°C): 44.0

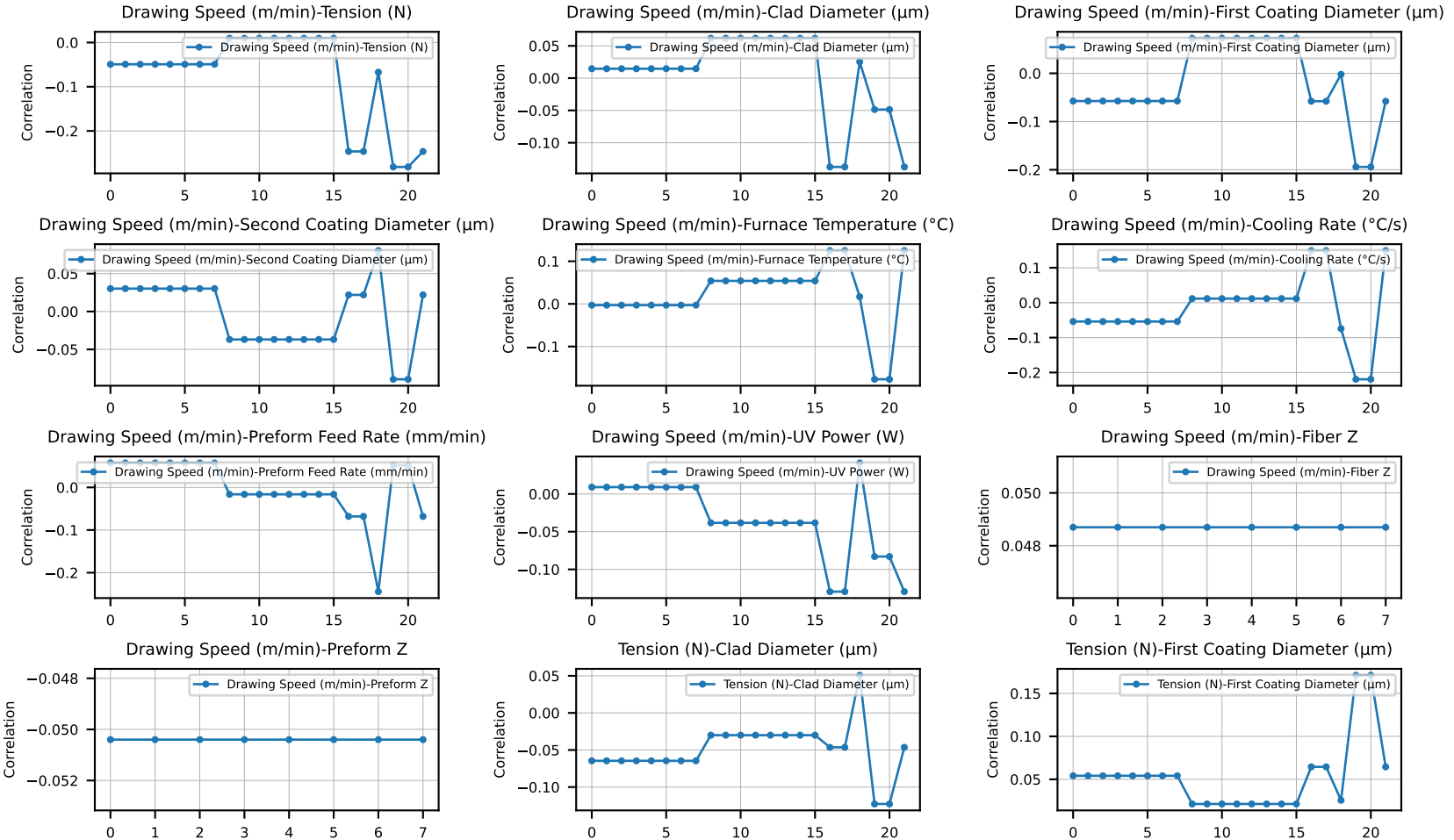
Secondary Viscosity (mPa·s): 1.398

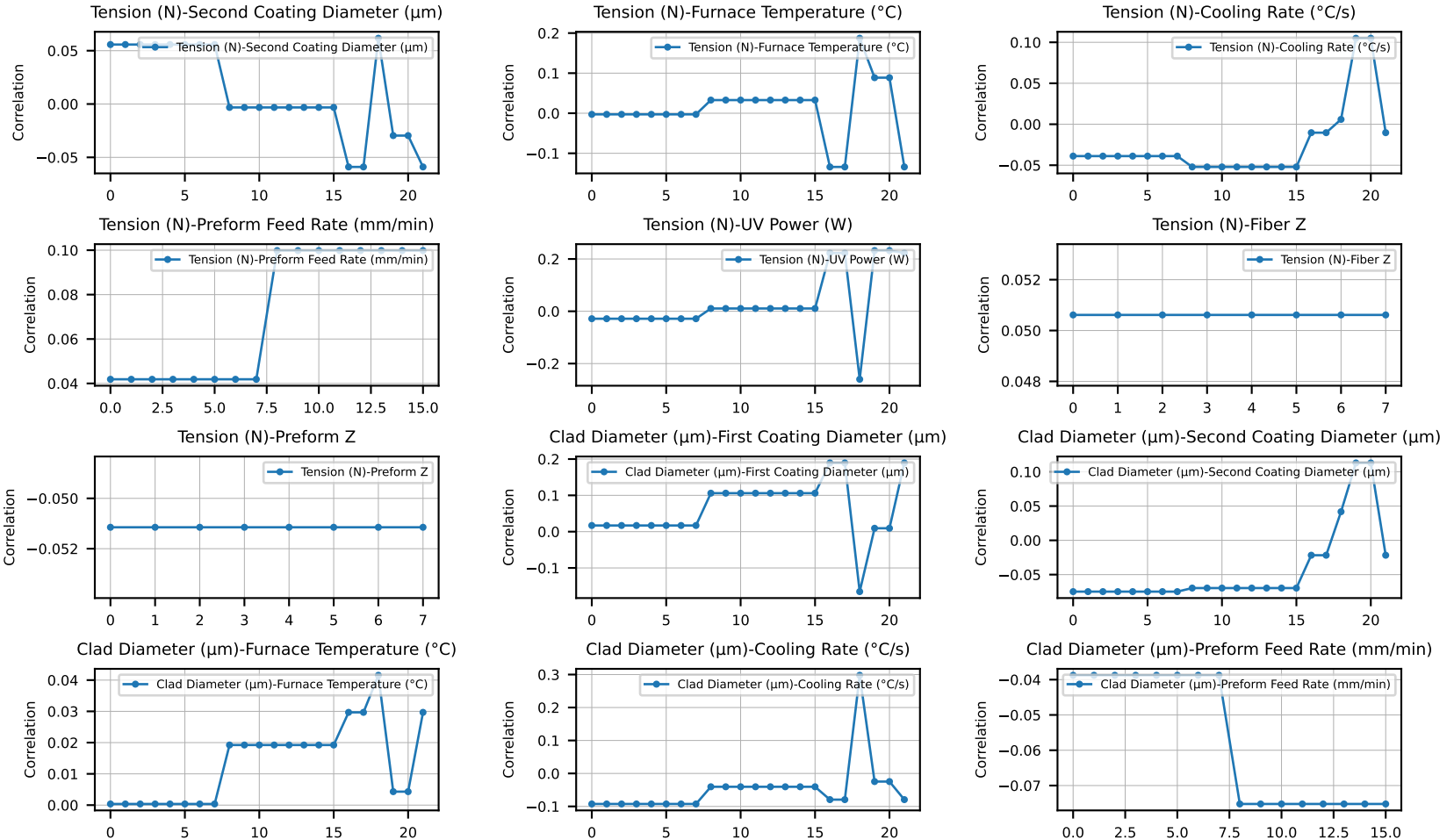
Secondary Estimated Thickness (µm): 196.43

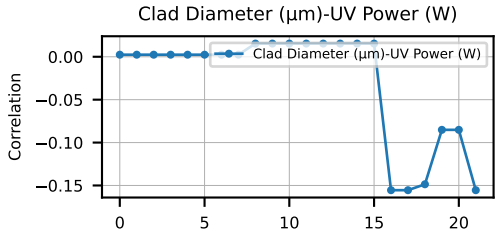
Section C - Tower Performance Analysis

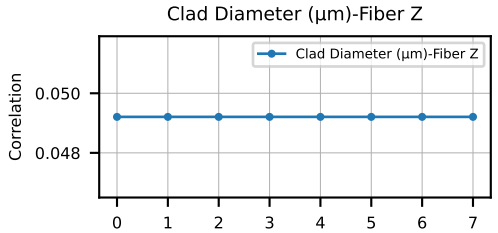
Correlation Tower Data

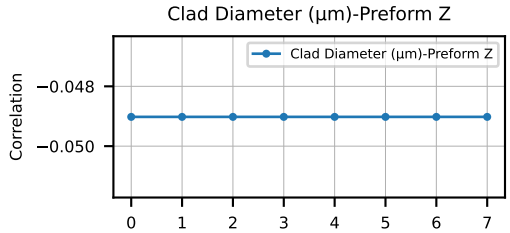


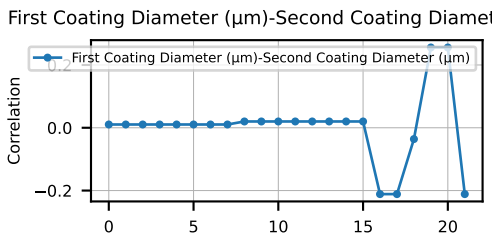

Drawing Speed (m/min)-Tension (N)
Drawing Speed (m/min)-Tension (N)
Drawing Speed (m/min)-Clad Diameter (μm)
Drawing Speed (m/min)-Clad Diameter (μm)
Drawing Speed (m/min)-First Coating Diameter (μm)
Drawing Speed (m/min)-First Coating Diameter (μm)
Drawing Speed (m/min)-Second Coating Diameter (μm)
Drawing Speed (m/min)-Second Coating Diameter (μm)
Drawing Speed (m/min)-Furnace Temperature (°C)
Drawing Speed (m/min)-Furnace Temperature (°C)
Drawing Speed (m/min)-Cooling Rate (°C/s)
Drawing Speed (m/min)-Cooling Rate (°C/s)
Drawing Speed (m/min)-Preform Feed Rate (mm/min)
Drawing Speed (m/min)-Preform Feed Rate (mm/min)
Drawing Speed (m/min)-UV Power (W)
Drawing Speed (m/min)-UV Power (W)
Drawing Speed (m/min)-Fiber Z
Drawing Speed (m/min)-Fiber Z
Drawing Speed (m/min)-Preform Z
Drawing Speed (m/min)-Preform Z
Tension (N)-Clad Diameter (μm)
Tension (N)-Clad Diameter (μm)
Tension (N)-First Coating Diameter (μm)
Tension (N)-First Coating Diameter (μm)
Correlation

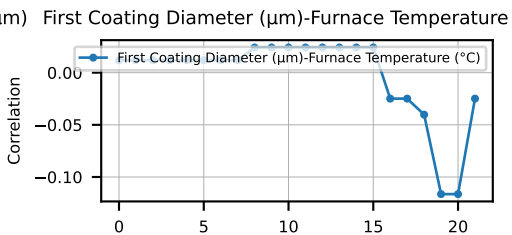

Tension (N)-Second Coating Diameter (μm)
Tension (N)-Second Coating Diameter (μm)
Correlation
Tension (N)-Furnace Temperature (°C)
Tension (N)-Furnace Temperature (°C)
Correlation
Tension (N)-Cooling Rate (°C/s)
Tension (N)-Cooling Rate (°C/s)
Correlation
Tension (N)-Preform Feed Rate (mm/min)
Tension (N)-Preform Feed Rate (mm/min)
Correlation
Tension (N)-UV Power (W)
Tension (N)-UV Power (W)
Correlation
Tension (N)-Fiber Z
Tension (N)-Fiber Z
Correlation
Tension (N)-Preform Z
Tension (N)-Preform Z
Correlation
Clad Diameter (μm)-First Coating Diameter (μm)
Clad Diameter (μm)-First Coating Diameter (μm)
Correlation
Clad Diameter (μm)-Second Coating Diameter (μm)
Clad Diameter (μm)-Second Coating Diameter (μm)
Correlation
Clad Diameter (μm)-Furnace Temperature (°C)
Clad Diameter (μm)-Furnace Temperature (°C)
Correlation
Clad Diameter (μm)-Cooling Rate (°C/s)
Clad Diameter (μm)-Cooling Rate (°C/s)
Correlation
Clad Diameter (μm)-Preform Feed Rate (mm/min)
Clad Diameter (μm)-Preform Feed Rate (mm/min)
Correlation

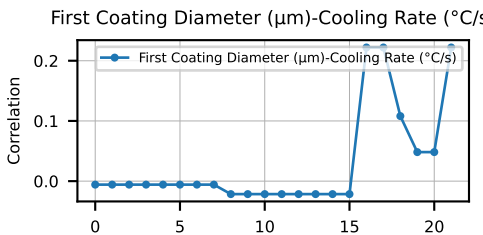

Clad Diameter (μm)-UV Power (W)
Clad Diameter (μm)-UV Power (W)
Correlation

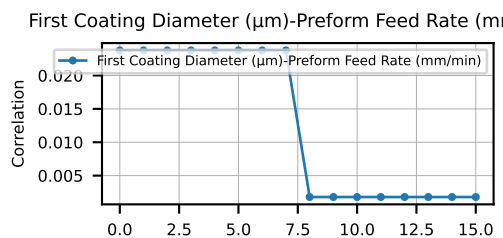

Clad Diameter (μm)-Fiber Z
Clad Diameter (μm)-Fiber Z
Correlation

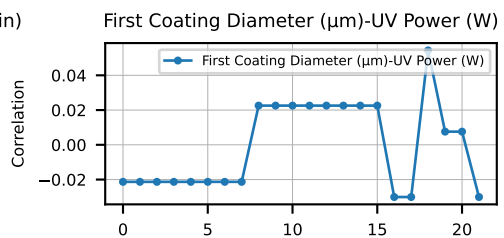

Clad Diameter (μm)-Preform Z
Clad Diameter (μm)-Preform Z
Correlation

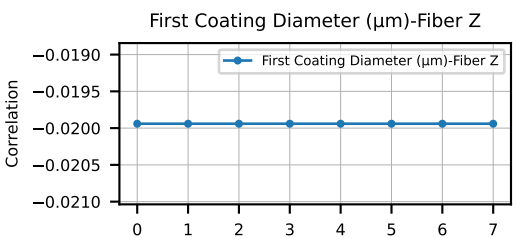

First Coating Diameter (μm)-Second Coating Diameter (μm)
First Coating Diameter (μm)-Second Coating Diameter (μm)
Correlation

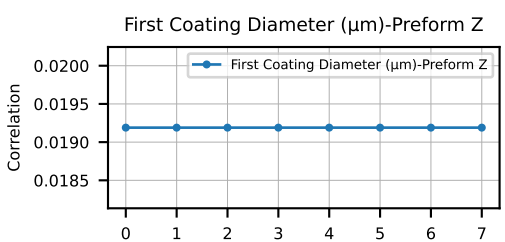

First Coating Diameter (μm)-Furnace Temperature (°C)
First Coating Diameter (μm)-Furnace Temperature (°C)
Correlation

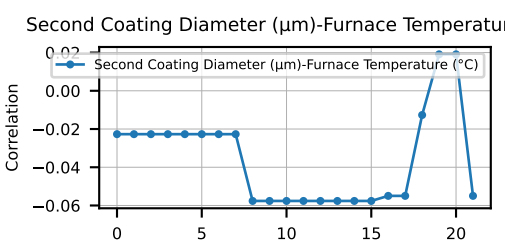

First Coating Diameter (μm)-Cooling Rate (°C/s)
First Coating Diameter (μm)-Cooling Rate (°C/s)
Correlation

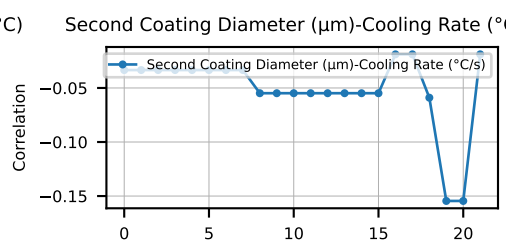

First Coating Diameter (μm)-Preform Feed Rate (mm/min)
First Coating Diameter (μm)-Preform Feed Rate (mm/min)
Correlation

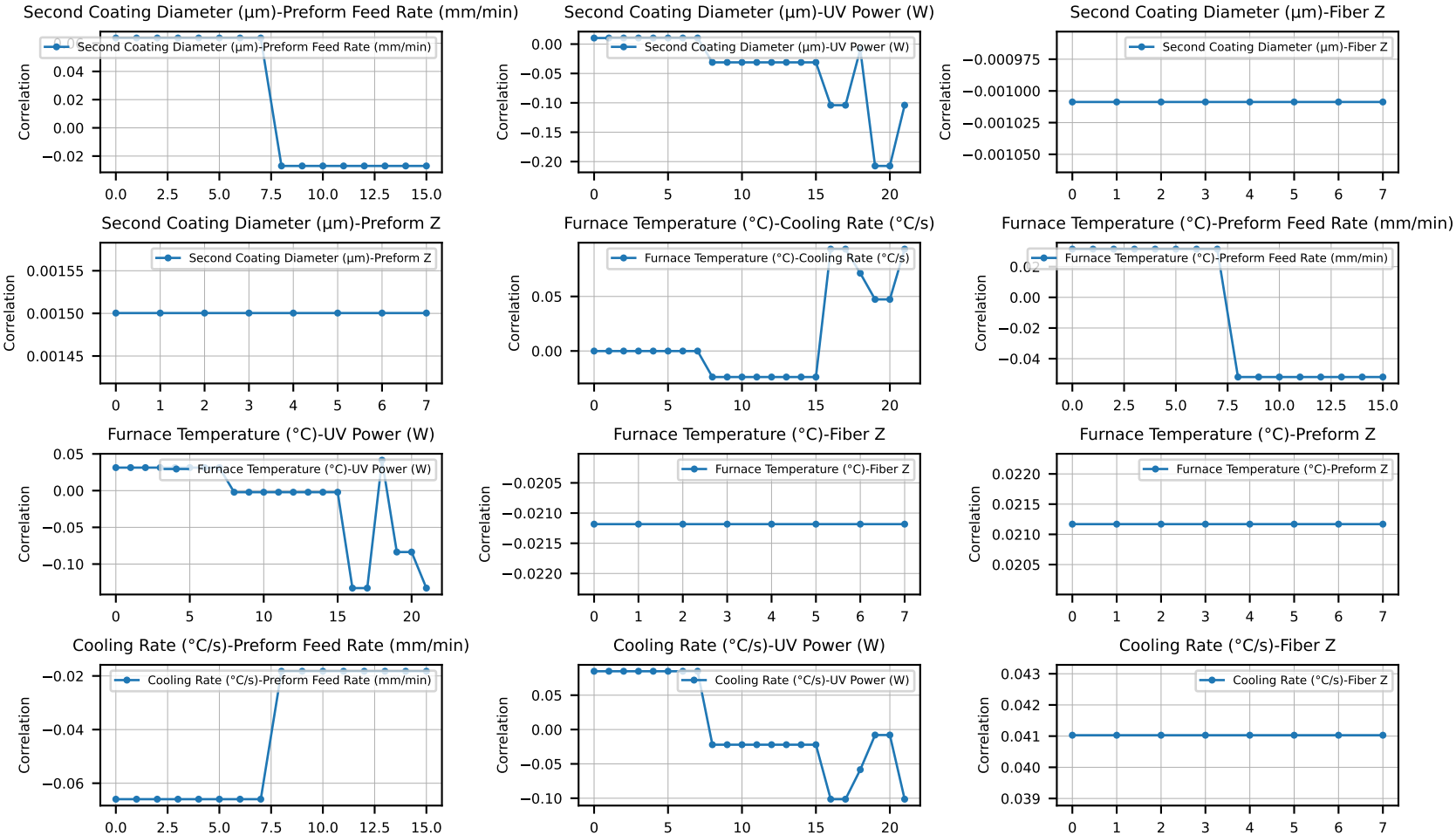

First Coating Diameter (μm)-UV Power (W)
First Coating Diameter (μm)-UV Power (W)
Correlation

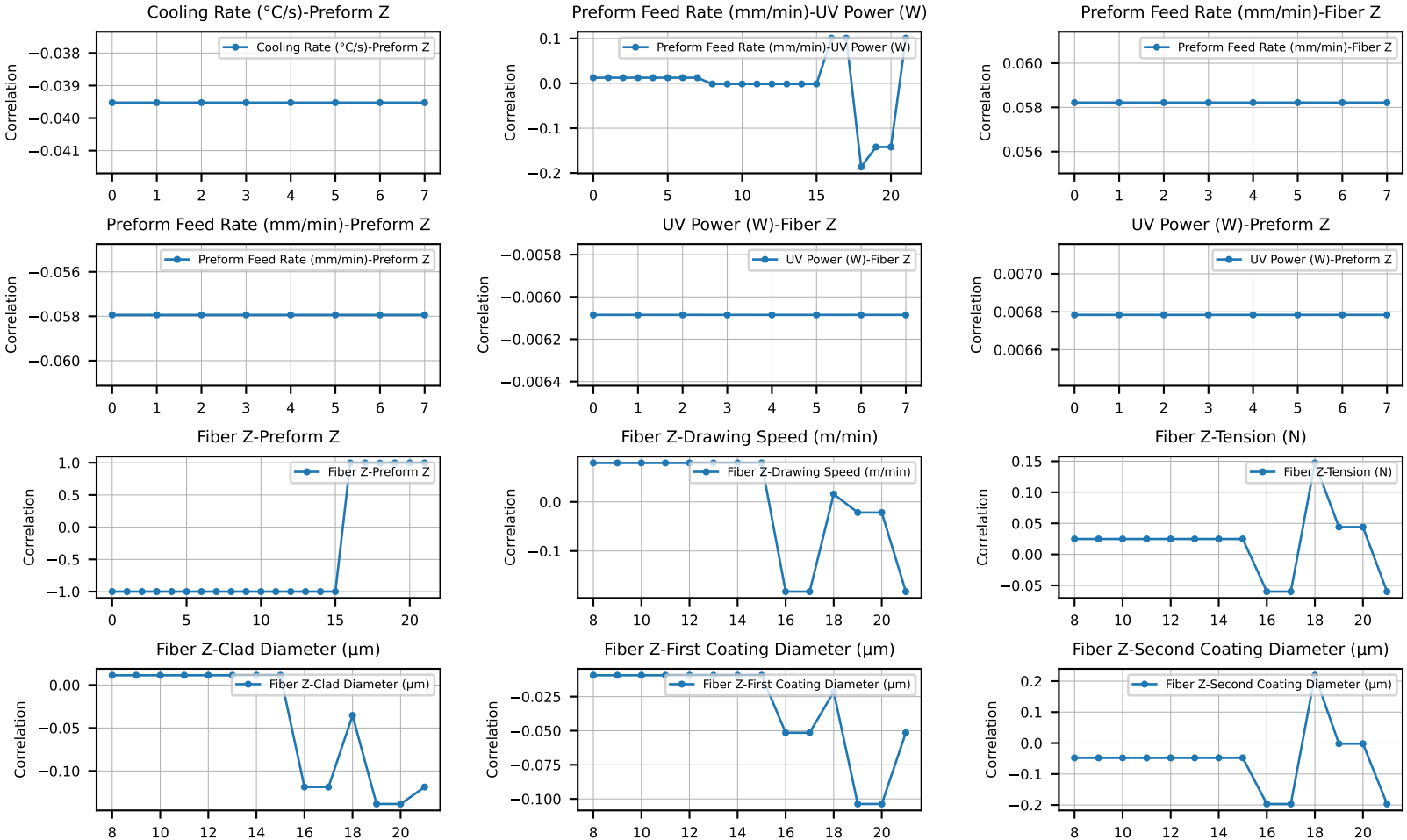

First Coating Diameter (μm)-Fiber Z
First Coating Diameter (μm)-Fiber Z
Correlation

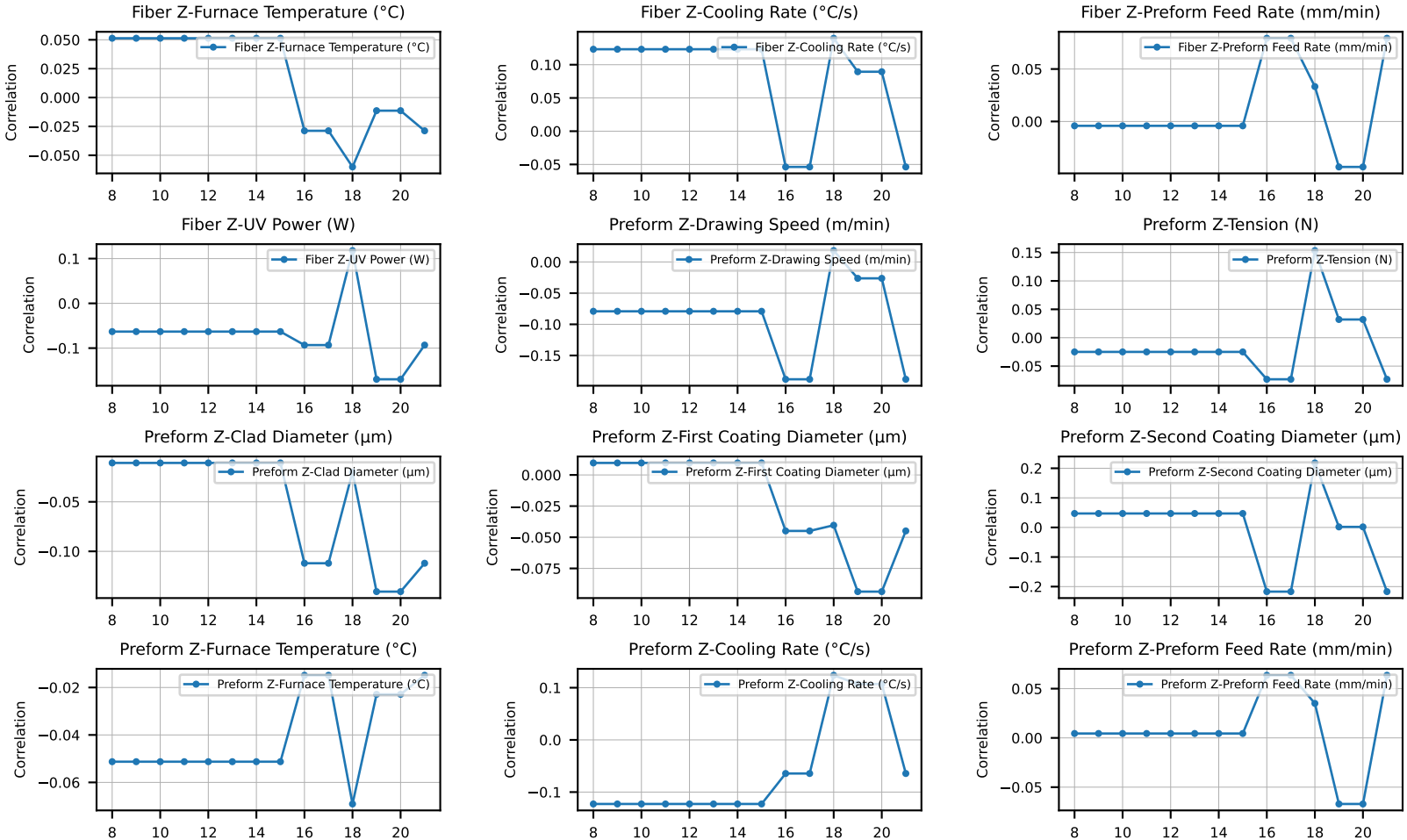

First Coating Diameter (μm)-Preform Z
First Coating Diameter (μm)-Preform Z
Correlation

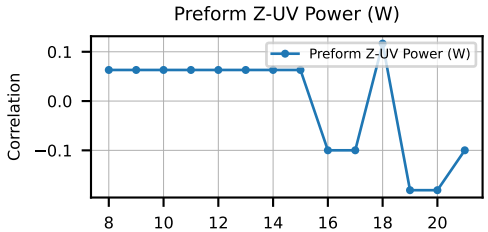

Second Coating Diameter (μm)-Furnace Temperature (°C)
Second Coating Diameter (μm)-Furnace Temperature (°C)
Correlation

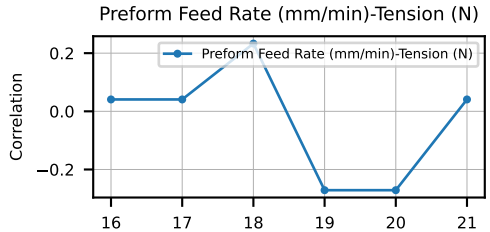

Second Coating Diameter (μm)-Cooling Rate (°C/s)
Second Coating Diameter (μm)-Cooling Rate (°C/s)
Correlation

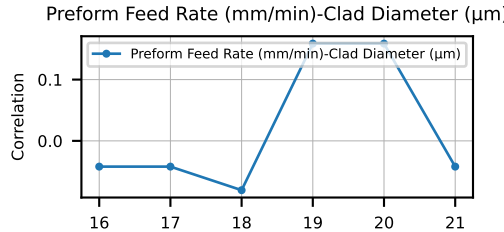

Second Coating Diameter (µm)-Preform Feed Rate (mm/min)
Second Coating Diameter (µm)-Preform Feed Rate (mm/min)
Correlation
Second Coating Diameter (µm)-UV Power (W)
Second Coating Diameter (µm)-UV Power (W)
Correlation
Second Coating Diameter (µm)-Fiber Z
Second Coating Diameter (µm)-Fiber Z
Correlation
Second Coating Diameter (µm)-Preform Z
Second Coating Diameter (µm)-Preform Z
Correlation
Furnace Temperature (°C)-Cooling Rate (°C/s)
Furnace Temperature (°C)-Cooling Rate (°C/s)
Correlation
Furnace Temperature (°C)-Preform Feed Rate (mm/min)
Furnace Temperature (°C)-Preform Feed Rate (mm/min)
Correlation
Furnace Temperature (°C)-UV Power (W)
Furnace Temperature (°C)-UV Power (W)
Correlation
Furnace Temperature (°C)-Fiber Z
Furnace Temperature (°C)-Fiber Z
Correlation
Furnace Temperature (°C)-Preform Z
Furnace Temperature (°C)-Preform Z
Correlation
Cooling Rate (°C/s)-Preform Feed Rate (mm/min)
Cooling Rate (°C/s)-Preform Feed Rate (mm/min)
Correlation
Cooling Rate (°C/s)-UV Power (W)
Cooling Rate (°C/s)-UV Power (W)
Correlation
Cooling Rate (°C/s)-Fiber Z
Cooling Rate (°C/s)-Fiber Z
Correlation

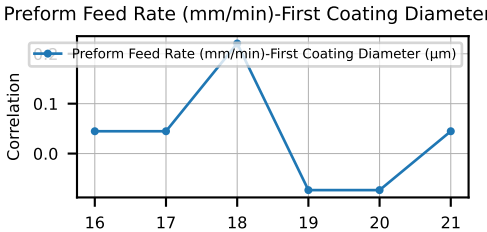

Cooling Rate (°C/s)-Preform Z
Preform Feed Rate (mm/min)-UV Power (W)
Preform Feed Rate (mm/min)-Fiber Z
Preform Feed Rate (mm/min)-Preform Z
UV Power (W)-Fiber Z
UV Power (W)-Preform Z
Fiber Z-Preform Z
Fiber Z-Drawing Speed (m/min)
Fiber Z-Tension (N)
Fiber Z-Clad Diameter (µm)
Fiber Z-First Coating Diameter (µm)
Fiber Z-Second Coating Diameter (µm)
Correlation

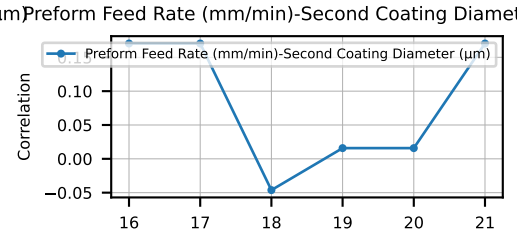

Fiber Z-Furnace Temperature (°C)
Fiber Z-Furnace Temperature (°C)
Correlation
Fiber Z-Cooling Rate (°C/s)
Fiber Z-Cooling Rate (°C/s)
Correlation
Fiber Z-Preform Feed Rate (mm/min)
Fiber Z-Preform Feed Rate (mm/min)
Correlation
Fiber Z-UV Power (W)
Fiber Z-UV Power (W)
Correlation
Preform Z-Drawing Speed (m/min)
Preform Z-Drawing Speed (m/min)
Correlation
Preform Z-Tension (N)
Preform Z-Tension (N)
Correlation
Preform Z-Clad Diameter (µm)
Preform Z-Clad Diameter (µm)
Correlation
Preform Z-First Coating Diameter (µm)
Preform Z-First Coating Diameter (µm)
Correlation
Preform Z-Second Coating Diameter (µm)
Preform Z-Second Coating Diameter (µm)
Correlation
Preform Z-Furnace Temperature (°C)
Preform Z-Furnace Temperature (°C)
Correlation
Preform Z-Cooling Rate (°C/s)
Preform Z-Cooling Rate (°C/s)
Correlation
Preform Z-Preform Feed Rate (mm/min)
Preform Z-Preform Feed Rate (mm/min)
Correlation

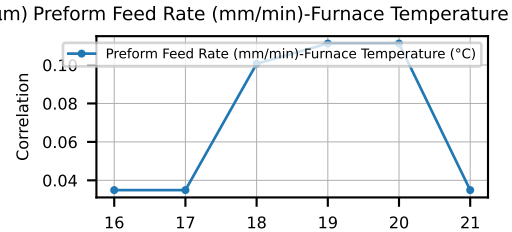

Preform Z-UV Power (W)
Preform Z-UV Power (W)
Correlation
0.1
0.0
−0.1
8
10
12
14
16
18
20

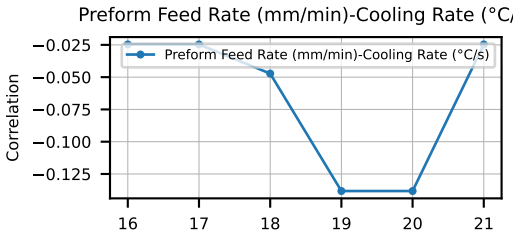

Preform Feed Rate (mm/min)-Tension (N)
Preform Feed Rate (mm/min)-Tension (N)
Correlation
0.2
0.0
−0.2
16
17
18
19
20
21


Preform Feed Rate (mm/min)-Clad Diameter (µm)
Preform Feed Rate (mm/min)-Clad Diameter (µm)
Correlation
0.1
0.0
16
17
18
19
20
21


Preform Feed Rate (mm/min)-First Coating Diameter (µm)
Preform Feed Rate (mm/min)-First Coating Diameter (µm)
Correlation
0.1
0.0
16
17
18
19
20
21


Preform Feed Rate (mm/min)-Second Coating Diameter (µm)
Preform Feed Rate (mm/min)-Second Coating Diameter (µm)
Correlation
0.10
0.05
0.00
−0.05
16
17
18
19
20
21


Preform Feed Rate (mm/min)-Furnace Temperature (°C)
Preform Feed Rate (mm/min)-Furnace Temperature (°C)
Correlation
0.08
0.06
0.04
16
17
18
19
20
21


Preform Feed Rate (mm/min)-Cooling Rate (°C/s)
Preform Feed Rate (mm/min)-Cooling Rate (°C/s)
Correlation
−0.025
−0.050
−0.075
−0.100
−0.125
16
17
18
19
20
21