ADVANTAGE
METAL POWDERS, INC.

Advantage Metal Powders, Inc.
44 Spleen Road
Ridgway, PA 15853
Phone: 814-772-5363
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Email: lab@advantagempi.com

LABORATORY DATA SHEET

CUSTOMER : ADVANTAGE METAL POWDERS
44 SPLEEN RD
RIDGWAY, PA 15853

DATE: 07/08/2020
LOT NO: 44659
MPIF#: F-0005
CUST CODE: AMP-3.5
REVISION:
QUANTITY: 9,007.00
PACKAGING: 3000 BULK GLUED
PO NUMBER:

PHYSICAL PROPERTIES

SCREEN ANALYSIS - MESH%	
+60	0.3
+100	8.7
+325	64.8
-325	26.2
TOTAL	100.0

	ACTUAL	MIN	MAX
AD	3.26	3.05	0.00
FLOW	29.60		0.00

COMPOSITION %

98.750%	AMP REMILL
0.000%	
0.500%	GRAPHITE
0.750%	LUBE
0.000%	
0.000%	
0.000%	
0.000%	
0.000%	
0.000%	

CHEMICAL ANALYSIS %

	ACTUAL	MIN	MAX
FE			
TOTAL CARBON			
MOLYBDENUM			
CARBON	0.499	0.400	0.600
SINT CARBON			
PHOSPHOROUS			
SULFUR	0.020		
CHROME			
LUBRICANT	0.731	0.700	0.000
COPPER			
NICKEL			
ZINC ST.			
TIN			
FLOGARD			
MANGANESE			
COBALT			

GREEN PROPERTIES

	ACTUAL	MIN	MAX
COMPACTING PRESSURE (TSI) :	35.2	0.0	42.0
GREEN DENSITY (G/CC) :	6.85	0.00	0.00
GREEN STRENGTH (PSI) :	1,617.00	1,100.00	0.00

SINTERED PROPERTIES

	ACTUAL	MIN	MAX
SINTERED DENSITY (G/CC) :	6.80	0.00	0.00
DIMENSIONAL CHANGE (%) :	0.14	0.12	0.22
TRS (PSI) :	87,555	65,000	0
HARDNESS (HRB) :	50	50	0

TEMPERATURE (F) : 2,050
ATMOSPHERE : 100% N2
TIME (MIN) : 20

SIGNED : 07/08/2020

Nicholas Tomblin
Lab Supervisor

DATE SIGNED