ADVANTAGE
METAL POWDERS, INC.

Advantage Metal Powders, Inc.
44 Spleen Road
Ridgway, PA 15853
Phone: 814-772-5363
Fax: 814-772-5353
Email: lab@advantagempi.com

LABORATORY DATA SHEET

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

DATE: 06/12/2020
LOT NO: 44468
MPIF#: FC-0205
CUST CODE: AMP-4.5
REVISION:
QUANTITY: 10.00
PACKAGING: DEFAULT CAN
PO NUMBER:

PHYSICAL PROPERTIES

SCREEN ANALYSIS - MESH%	
+60	0.5
+100	10.4
+325	67.9
-325	21.2
TOTAL	100.0

	ACTUAL	MIN	MAX
AD	3.30	3.05	0.00
FLOW	30.10		0.00

COMPOSITION %

96.750%	AMP REMILL
0.000%	
2.000%	COPPER
0.500%	GRAPHITE
0.750%	LUBE
0.000%	
0.000%	
0.000%	
0.000%	
0.000%	

CHEMICAL ANALYSIS %

	ACTUAL	MIN	MAX
FE			
TOTAL CARBON			
MOLYBDENUM			
CARBON	0.519	0.400	0.600
SINT CARBON			
PHOSPHOROUS			
SULFUR	0.049		
CHROME			
LUBRICANT	0.740	0.700	0.000
COPPER			
NICKEL			
ZINC ST.			
TIN			
FLOGARD			
MANGANESE			
COBALT			

GREEN PROPERTIES

	ACTUAL	MIN	MAX
COMPACTING PRESSURE (TSI) :	36.4	0.0	42.0
GREEN DENSITY (G/CC) :	6.86	0.00	0.00
GREEN STRENGTH (PSI) :	1,657.00	1,100.00	0.00

SINTERED PROPERTIES

	ACTUAL	MIN	MAX
SINTERED DENSITY (G/CC) :	6.72	0.00	0.00
DIMENSIONAL CHANGE (%) :	0.56	0.48	0.58
TRS (PSI) :	114,606	100,000	0
HARDNESS (HRB) :	70	70	0

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

SIGNED :

Nicholas Tomblin
Lab Supervisor

06/12/2020
DATE SIGNED