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: 06/23/2021
LOT NO: 49207
MPIF#: F-0008
CUST CODE: AMP-3
REVISION:
QUANTITY: 60,993.00
PACKAGING: 3000 BULK GLUED
PO NUMBER:

PHYSICAL PROPERTIES

SCREEN ANALYSIS - MESH%	
+60	0.4
+100	7.8
+325	69.1
-325	22.7
TOTAL	100.0

	ACTUAL	MIN	MAX
AD	3.14	3.05	0.00
FLOW	34.90		38.00

COMPOSITION %

98.450%	AMP REMILL
0.000%	
0.800%	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	0.825	0.700	0.000
SINT CARBON			
PHOSPHOROUS			
SULFUR	0.013		
CHROME			
LUBRICANT	0.745	0.700	0.000
COPPER			
NICKEL			
ZINC ST.			
TIN			
FLOGARD			
MANGANESE			
COBALT			

GREEN PROPERTIES

	ACTUAL	MIN	MAX	STANDARD
COMPACTING PRESSURE (TSI) :	34.8	0.0	42.0	
GREEN DENSITY (G/CC) :	6.80	0.00	0.00	0.00
GREEN STRENGTH (PSI) :	1,691.00	1,100.00	0.00	

SINTERED PROPERTIES

	ACTUAL	MIN	MAX	STANDARD
SINTERED DENSITY (G/CC) :	6.73	0.00	0.00	
DIMENSIONAL CHANGE (%) :	0.26	0.22	0.32	0.29
TRS (PSI) :	103,214	65,000	0	
HARDNESS (HRB) :	71	65	0	69 (HRB)

AMP FC-0208 STD LOT NO: 41165

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

SIGNED :

Nicholas Tomblin
Lab Supervisor

06/23/2021
DATE SIGNED