ADVANTAGE
METAL POWDERS, INC.

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

LABORATORY DATA SHEET

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

ATTENTION:

DATE: 08/17/2016
LOT NUMBER: 31278
MPIF#: F-0008
CUSTOMER CODE: AMP-3
REVISION:
QUANTITY: 45,009.00
PACKAGING: 3000 BULK GLUED
PO NUMBER:

PHYSICAL PROPERTIES

SCREEN ANALYSIS - MESH%	
+20	0.0
+40	0.0
+60	0.4
+80	3.5
+100	7.2
+140	19.0
+200	22.2
+325	25.8
-325	21.9
TOTAL	100.0

	ACTUAL	MIN	MAX
AD	3.30	3.05	0.00
FLOW	26.70		38.00

COMPOSITION %

100.000%	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	0.779	0.700	0.000
SINT CARBON			
PHOSPHOROUS			
SULFUR	0.033		
CHROME			
LUBRICANT	0.777	0.700	0.000
COPPER			
NICKEL			
ZINC ST.			
TIN			
ZINC			
MANGANESE			

GREEN PROPERTIES

		ACTUAL	MIN	MAX
COMPACTING PRESSURE (TSI)	:	32.4	0.0	42.0
GREEN DENSITY (G/CC)	:	6.80	0.00	0.00
GREEN STRENGTH (PSI)	:	1,325.00	1,100.00	0.00

SINTERED PROPERTIES

		ACTUAL	MIN	MAX
SINTERED DENSITY (G/CC)	:	6.71	0.00	0.00
DIMENSIONAL CHANGE (%)	:	0.26	0.22	0.32
TRS (PSI)	:	103,388	65,000	0
HARDNESS (HRB)	:	82	65	0

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

SIGNED :

Kristie Brumberg