

Advantage Metal Powders, Inc.
 44 Spleen Road
 Ridgway, PA 15853
 Phone: 814-772-5363
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LABORATORY DATA SHEET

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

DATE: 08/16/2016
 LOT NUMBER: 31274
 MPIF#: FN-0208
 CUSTOMER CODE: AMP-5
 REVISION:
 QUANTITY: 6,011.00
 PACKAGING: 3000 BULK GLUED
 PO NUMBER:

ATTENTION:

PHYSICAL PROPERTIES		COMPOSITION %	CHEMICAL ANALYSIS %		
SCREEN ANALYSIS - MESH%		100.000% AMP REMILL	<u>ACTUAL</u>	<u>MIN</u>	<u>MAX</u>
+20	0.0	0.000%			
+40	0.0	2.000% NICKEL			
+60	0.3	0.800% GRAPHITE			
+80	4.1	0.750% LUBE			
+100	7.1	0.025% FLOGARD			
+140	18.8	0.000%			
+200	22.5	0.000%			
+325	26.1	0.000%			
-325	21.1	0.000%			
TOTAL	100.0				
	<u>ACTUAL</u>	<u>MIN</u>	<u>MAX</u>		
AD	3.24	3.00	0.00		
FLOW	27.00	40.00			
				FE	
				TOTAL CARBON	
				MOLYBDENUM	
				CARBON	0.749 0.700 0.000
				SINT CARBON	
				PHOSPHOROUS	
				SULFUR	0.015
				CHROME	
				LUBRICANT	0.732 0.700 0.000
				COPPER	
				NICKEL	
				ZINC ST.	
				TIN	
				ZINC	
				MANGANESE	

GREEN PROPERTIES

	<u>ACTUAL</u>	<u>MIN</u>	<u>MAX</u>
COMPACTING PRESSURE (TSI) :	36.0	0.0	42.0
GREEN DENSITY (G/CC) :	6.85	0.00	0.00
GREEN STRENGTH (PSI) :	1,670.00	1,100.00	0.00

SINTERED PROPERTIES

	<u>ACTUAL</u>	<u>MIN</u>	<u>MAX</u>
SINTERED DENSITY (G/CC) :	6.80	0.00	0.00
DIMENSIONAL CHANGE (%) :	0.22	0.14	0.24
TRS (PSI) :	111,709	95,000	0
HARDNESS (HRB) :	89	70	0
TEMPERATURE (F) :	2,050		
ATMOSPHERE :	100% N2		
TIME (MIN) :	20		

SIGNED :


 Kristie Brumberg