



Item ID:	LA-3202-27
Revision Level:	
Revision Date:	

Title:	Material Specificaiton for LA-3202-27
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Chemical Compositon Requirements (By weight percent)			
Element	Minimum	Maximum	Target
Aluminum	-	-	-
Boron	-	-	-
Carbon	5.15%	-	5.15%
Chromium	-	0.50%	0.25%
Cobalt	11.00%	13.00%	12.00%
Free Carbon	-	0.10%	0.05%
Iron	-	1.50%	0.75%
Manganese	-	-	-
Molybdenum	-	-	-
Nickel	-	0.50%	0.25%
Oxygen	-	-	-
Silicon	-	-	-
Sulfur	-	-	-
Tungsten	81.00%	-	81.00%
Vanadium	-	-	-

Rotap Sizing Requirements (Weight Percent Per ASTM B214)					
U.S. Mesh		Min.	Max.		
Passing Sieve	X Retained				
		140 Mesh	-	-	
140 Mesh	X	170 Mesh	-	-	
170 Mesh	X	200 Mesh	-	-	
200 Mesh	X	230 Mesh	-	-	
230 Mesh	X	270 Mesh	-	0.00%	
270 Mesh	X	325 Mesh	-	0.50%	
325 Mesh	X	D	99.50%	-	

Sub-Sieve Sizing Requirements (Volume Percent Per ASTM B822)		
Micron Channel	Min	Max
-20 μ	70.00%	-
-5 μ	-	8.00%
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Physical Properties Requirements		
Testing Procedure	Minimum	Maximum
Hall Flow (per ASTM B213)	-	-
Apparent Density (per ASTM B212)	4	6
Mean Value (per ASTM B222)	-	-
D10 (per ASTM B222)	-	-
D50 (per ASTM B222)	-	-
D90 (per ASTM B222)	-	-

Quality Manager:

Operations Manager:

General Manager: