



Item ID:	LA-3291S-25
Revision Level:	
Revision Date:	

Title:	Material Specifcaiton for LA-3291S-25
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Chemical Compositon Requirements (By weight percent)			
Element	Minimum	Maximum	Target
Aluminum	-	-	-
Boron	-	-	-
Carbon	4.90%	5.60%	5.25%
Chromium	3.50%	4.50%	4.00%
Cobalt	9.50%	11.00%	10.25%
Free Carbon	-	-	-
Iron	-	1.00%	0.50%
Manganese	-	-	-
Molybdenum	-	-	-
Nickel	-	0.50%	0.25%
Oxygen	-	-	-
Silicon	-	-	-
Sulfur	-	-	-
Tungsten	82.10%	-	82.10%
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	-	0.00%
230 Mesh	X	270 Mesh	-	1.00%
270 Mesh	X	325 Mesh	-	5.00%
325 Mesh	X	D	94.00%	-

Sub-Sieve Sizing Requirements (Volume Percent Per ASTM B822)		
Micron Channel	Min	Max
-15 μ	-	5.00%
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Quality Manager:

Operations Manager:

General Manager: