

	<b>RM-SPECIFICATION</b>		DOCUMENT STATUS
	<b>Material : Nickel Foil</b> <b>Item Code:</b> <b>Purpose : Current Collector</b>		<b>DRAFT</b>
<b>MATERIAL CODE:</b>	M03	<b>DOCUMENT NO.</b>	12

Sno	Description	UOM	Specification
1.	Physical State / Color	-	solid/ silvery White
2.	Assay Content	%	97
3.	Grade	%	XXX
4.	Mol. Wt.	g/mole	58.69
5.	<b>Element</b>	<b>%</b>	<b>Percentage</b>
a.	Nickel	%	≥ 99.5
b.	Manganese (Mn)	%	≤ 0.30
c.	iron (Fe)	%	≤ 0.2
d.	Copper (Cu)	%	≤ 0.05
e.	Sulphur (S)	%	≤ 0.02
f.	Carbon (C)	%	≤ 0.1
6.	Thickness	mm	0.14, 0.30, 0.12, 0.2 (±0.005)
7.	Melting point	°C	1455
8.	Supplier		JLC Electromet
9.	MSDS no.	-	XXXX
10.	CAS no.	-	12001-26-2
11.	<b>Acceptance Criteria</b>		
a.	Visual Acceptance	-	Silvery White Solid
b.	Assay Content	%	96 ± 1
c.	Dimensions	-	Drawing no:
d.	Thermal Conductivity	W/m-K	90-100
12.	<b>Properties</b>	<b>Test Method</b>	<b>Test Agency</b>
a.	Quantitative analysis	ICPMS/AAS	NABL, IIT-HYD, CMET
b.	Dimensions	Vernier & others	RES
c.	Mechanical Properties	Tensile strength	CITD
d.	Specific heat & Thermal Conductivity	COC	NABL, IIT-HYD, CMET

PREPARED BY:		REVIEWED & APPROVED BY:
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**RENEWABLE ENERGY SYSTEMS LIMITED**