

	RM-SPECIFICATION		DOCUMENT STATUS
	Material : Nickel Ferni Wire Item Code: Purpose : Current Collector		DRAFT
MATERIAL CODE:	M03	DOCUMENT NO.	

Sno	Description	UOM	Specification
1.	Physical State / Color	-	Solid/ Silvery White
2.	Assay Content	%	50(Ni) & 50(Fe)
3.	Grade	%	NA
4.	Mol. Wt.	g/mole	NA
5.	Element	%	Percentage
a.	Nickel	%	≥ 49
b.	iron (Fe)	%	≥ 49
c.	Manganese (Mn)	%	< 1
d.	Silicon (Si)	%	< 0.5
e.	Sulphur (S)	%	< 0.03
f.	Carbon (C)	%	< 0.10
6.	Melting point	°C	1450 – 1455
7.	Thermal Expansion	10 ⁻⁶ /°C	9.6 – 10.4
8.	Supplier	-	JLC electromet
9.	MSDS no.	-	XXX
10.	CAS no.	-	XXX
11.	Acceptance Criteria		
a.	Visual Acceptance	-	Silvery White Solid
b.	Assay Content	%	48(Ni) & 52(Fe) ± 1
c.	Dimensions	-	Drawing no:
d.	Thermal Conductivity	W/m-K	XXX
12.	Properties	Test Method	Test Agency
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