

	RM-SPECIFICATION		DOCUMENT STATUS
	Material : Stainless Steel container Item Code: Purpose : Container/Lid/Current collector		DRAFT
MATERIAL CODE:	M09	DOCUMENT NO.	11

Sno	Description	UOM	Specification
1.	Physical State / Color	-	Solid/ Silvery White
2.	Assay Content	%	98
3.	Grade	-	SS-304
4.	Element	%	Percentage
a.	Iron (Fe)	%	66.5
b.	Chromium (Cr)	%	18 - 20
c.	Nickel (Ni)	%	8.0 – 10.5
d.	Manganese (Mn)	%	2.00
e.	Silicon (Si)	%	0.75
f.	Nitrogen (N)	%	0.10
g.	Phosphorus (P)	%	0.045
h.	Carbon (C)	%	0.03
5.	Ultimate Tensile Strength	MPa	505
6.	Yield Point	MPa	205
7.	Specific heat	J/kg K	490
8.	Thermal Conductivity	W/m-K	16.2
9.	Melting point	°C	1400 - 1450
10.	Supplier	-	Nivee metal products
11.	MSDS no.	-	XXX
12.	CAS no.	-	65997-19-5
13.	Acceptance Criteria		
a.	Visual Acceptance	-	Silvery White
b.	Assay Content	%	98 ± 1
c.	Thermal Conductivity	W/m-K	16.2 ± 2
d.	Melting point	°C	1400 - 1450
14.	Properties	Test Method	Test Agency
a.	Quantitative & qualitative analysis	ICPMS/ED-XRF	NABL, IIT-HYD, CMET
b.	Specific heat & Thermal Conductivity	DSC/TGA	NABL, IIT-HYD, CMET
c.	Tensile strength	-	CITD
d.	Yield point	COC	-
e.	Salt Corrosion Resistance	Salt Corrosion Resistance	NABL

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