

	RM-SPECIFICATION Material : Lid Item Code: Purpose : Container		DOCUMENT STATUS
			DRAFT
MATERIAL CODE:	M09	DOCUMENT NO.	22

Sno	Description	UOM	Specification
1.	Physical State / Color	-	Solid/ Greyish White
2.	Assay Content	%	99
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)	%	1.00
f.	Sulphur (S)	%	0.03
g.	Phosphorus (P)	%	0.045
h.	Carbon (C)	%	0.08
5.	Ultimate Tensile Strength (kg/mm ²)	MPa	515
6.	Yield Point(kg/mm ²)	MPa	205
7.	Elongation on 50mm GL	%	40
8.	Hardness RB		88
9.	Specific heat	J/kg K	490
10.	Thermal Conductivity	W/m-K	16.2
11.	Thickness	mm	1.0±0.09
12.	Melting point	°C	1400 - 1450
13.	MSDS no.	-	XXX
14.	CAS no.	-	65997-19-5
15.	Acceptance Criteria		
a.	Visual Acceptance	-	Solid Greyish White
b.	Assay Content	%	99 ± 2
c.	Thermal Conductivity	W/m-K	16.2 ± 2
d.	Dimensions	-	Drawing No.
e.	Melting point	°C	1400 - 1450
16.	Properties	Test Method	Test Agency
a.	Quantitative & qualitative analysis	ICPMS/ED-XRF	NABL, IIT-HYD, CMET
b.	Morphology & Particle size distribution	Scanning electron microscope (SEM)	NABL, SRR labs
c.	Specific heat & Thermal Conductivity	DSC/TGA	NABL, IIT-HYD, CMET
d.	Salt Corrosion Resistance	Salt Corrosion Resistance	NABL

PREPARED BY:		REVIEWED & APPROVED BY:
---------------------	--	------------------------------------

RENEWABLE ENERGY SYSTEMS LIMITED
