

	RM-SPECIFICATION		DOCUMENT STATUS
	Material : Calcium Ingot Item Code: Purpose : Anode		DRAFT
MATERIAL CODE:	C05	DOCUMENT NO.	27

Sno	Description	UOM	Specification
1	Physical State / Color	-	Solid / Silver grey
2	Assay Content	%	98
4	Grade	-	NA
5	Mol. Wt.	g/mol	40
6	Element	%	Percentage
a)	Ca	%	98
b)	Ni	%	0.001
c)	Fe	%	0.008
d)	Mn	%	0.02
e)	Mg	%	0.33
f)	Al	%	0.25
g)	Si	%	0.005
7	Melting point	°C	842
8	Boiling point	°C	1484
9	Particle size distribution	µm	XXX
10	Surface Area	cm ³	XXX
11	Bulk density	g/cm ³	XXX
12	Specific heat	J/g K	0.6
13	Supplier		Shanghai Ca Metal Limited
14	MSDS no.	-	XXX
15	CAS no.	-	7440-70-2
16	Acceptance Criteria		
a)	Visual Acceptance	-	Silver grey
b)	Assay Content	%	98
c)	Melting point	°C	842±2
17	Properties	Test Method	Test Agency
a)	Quantitative & qualitative analysis	ICPMS/XRD/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

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