

	<b>RM-SPECIFICATION</b>		DOCUMENT STATUS
	<b>Material : Barium Chromate (BaCrO<sub>4</sub>)</b> <b>Item Code:</b> <b>Purpose : Heat Pellet</b>		<b>DRAFT</b>
<b>MATERIAL CODE:</b>	C02	<b>DOCUMENT NO.</b>	9

  

S.no	Description	UOM	Specification
1.	Physical State / Color	-	Solid Powder / Yellow
2.	Assay Content	%	98
3.	Grade	-	NA
4.	Mol. Wt.	g/mol	253
5.	<b>Element</b>	<b>%</b>	<b>Percentage</b>
a.	BaCrO <sub>4</sub>	%	98
b.	Soluble in water	%	0.05
c.	Soluble in HCl	%	0.03
d.	Carbonates (CO <sub>3</sub> <sup>2-</sup> )	%	0.03
e.	Chlorides (Cl)	%	0.0001
6.	Melting point	°C	1380
7.	Particle size distribution	µm	50 - 200
8.	Bulk density	g/cm <sup>3</sup>	2.523
9.	Calorific Value (BaCrO <sub>4</sub> : Zr = 76:24)	Cal/g	430
10.	Supplier	-	Voxco Pigments
11.	MSDS no.	-	XXX
12.	CAS no.	-	10294-40-3
13.	<b>Acceptance Criteria</b>		
a.	Visual Acceptance	-	Yellow Powder
b.	Assay Content	%	97 ± 1
c.	Burning Speed	mm/sec	-
d.	Calorific Value (BaCrO <sub>4</sub> : Zr = 76:24)	Cal/g	430
14.	<b>Properties</b>	<b>Test Method</b>	<b>Test Agency</b>
a.	Quantitative & qualitative analysis	ICPMS	NABL, IIT-HYD, CMET
b.	Particle size distribution	PSD	RES, NABL, SRR labs
c.	Calorific Value	Bomb Calorimeter	RES
d.	Thermal Conductivity	DSC/TGA	NABL, IIT-HYD, CMET

  

PREPARED BY:		REVIEWED & APPROVED BY:
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<b>RENEWABLE ENERGY SYSTEMS LIMITED</b>
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