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TEST REPORT

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Applicant

Mr Kumaran

Manufacturer/ Company

ROCK GARNET TRADING SDN. BHD.

No. 8-1, Jalan Palma Raya, Bandar Botanic, 41200 Klang

SELANGOR

Test item

Iron Furnace Slag

Reference standard/ Method of Test

ISO 11126-6: Specifications for non-metallic blast-

cleaning abrasives- Iron Furnace Slag

Description of Test item

Solid

Date Received of Test item

6 December 2017

Testing Location

Porous Ceramic Room

Date of Test Performed

7 - 12 December 2017

Job No.

QG17002725

Description of Lab Condition

Not applicable

Issued Date

12 December 2017

Prepared by:

(Zarina Abdul Wahid) Senior Researcher Industrial Centre of Innovation NANOTECHNOLOGY

SIRIM Industrial Research

Approved by:

(Dr. Teng Wan Dung)

Principal Researcher Industrial Centre of Innovation NANOTECHNOLOGY SIRIM Industrial Research

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TEST RESULTS

1. Determination of particle size distribution (ISO 11127-2)

Table 1. Specification for Particle Size Distribution of Non-Metallic Blast Cleaning Abrasive

Particle Size Range, mm		0.2 to 0.5	0.2 to 1.0	0.2 to 1.4	0.2 to 2.0	0.2 to 2.8	0.5 to 1.0	0.5 to 1.4	0.5 to 2.0	0.5 to 2.8
	Sieve size	0.5	1	1.4	2	2.8	1	1.4	2	2.8
Oversize	Residue,% (m/m) maximum	10	10	10	10	10	10	10	10	10
RINCE	Sieve size	0.2	0.2	0.2	0.2	0.2	0.5	0.5	1	1.4
Nominal Size	Residue,% (m/m) minimum	85	85	85	85	85	80	80	80	80
1. 1760	Sieve size	0.2	0.2	0.2	0.2	0.2	0.5	0.5	1	1.4
Undersize	Through- flow,% (m/m)	5	5	5	5	5	10	10	10	0.5 to 10 2.8
	maximum	0.0	1	14	12.	2.8		1.4.	2 1	2.8

Table 2. Result of Particle Size Distribution

Particle Size Range : 0.2 to 1.0 mm		Requirements			Results	Remarks		
Oversize	Savas	Sieve Size	0.2	1.0	3.15	050	0.8	
	Residue (room)	Residue, % (m/m)	1.5	10	85	0.0	Complied	
Nominal Size		Sieve Size		0.2		348		
		Residue, % (m/m) minimum	£.2	85	0.2	99.9	Complied	
Undersize	Miderno	Sieve Size	ta dile	0.2				
	Residue, % (m/m			5	0.1		Complied	





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Table 3. Particle Size Distribution of Iron Furnace Slag

Sieve Micron (µm)	Weight Retained, %	Cumulative Retained, %	Weight Passing,		
1000	0.0	0.0	100.0		
850	2.8	2.8	97.2		
710	30.3	33.1	66.9		
600	26.3	59.4	40.6		
500	11.9	71.3	28.7		
425	18.8	90.1	9.90		
ORT 1300 GG 7	0327356.1	96.2	3/3 3.8		
250	3.7	99.9	0.1		
Pan	0.1	100.0	0.0		

Table 4. Test results of Iron Furnace Slag

Description		Test Method	Requirements	Results	Remarks	
2.	Determination of apparent density,(kg/m³)	ISO 11127-3	$(3.0-3.3) \times 10^3$	3.54 X 10 ³	Complied	
3.	Assessment of hardness by a glass slide test	ISO 11127-4	Min. 6	6	Complied	
4.	Moisture measurement	ISO 11127-5	Max. 0.20	0.01	Complied	
5.	Determination of water- soluble contaminants by conductivity measurement at 20°C, (mS/m)	ISO 11127-6	Max. 25	18.76	Complied	
	Determination of water soluble chloride, % (m/m)	ISO 11127-7	Max. 0.0025	Nil	Complied	

