

Issued Date: December 9, 2013

Certificate of Analysis

Grade : J.P.
 Product Name : Magnesium Oxide Heavy Powder MY
 Chemical Name : Magnesium Oxide
 CAS No. : 1309-48-4

Item	Specification	Analysis Result	Test Method
Description	Meets tests	Meets tests	J.P.
Identification	Meets test	Meets test	J.P.
Alkali and Soluble salts			
Alkali	Meets test	Meets test	J.P.
Soluble salts	10 mg max.	4.7 mg	
Carbonate	Meets test	Meets test	J.P.
Heavy metals	40 ppm max.	40 ppm max.	J.P.
Iron	500 ppm max.	500 ppm max.	J.P.
Calcium oxide	1.5 % max.	0.2 %	J.P.
Arsenic	10 ppm max.	10 ppm max.	J.P.
Acid-insoluble substances	2.0 mg max.	0.6 mg	J.P.
Fluoride	0.08 % max.	0.00 %	In-house
Loss on ignition	10 % max.	1.4 %	J.P.
Assay (after ignition)	96.0 ~ 101.0 %	98.3 %	J.P.
Volume test	30 mL/5g max.	14 mL/5g	J.P.
Our test method of the above items & specifications are in accordance with J.P. XVI			
Additional requests			
Average particle size	20 ~ 70 μm	35 μm	In-house
Conclusion : PASS			

Lot No. :
 Quantity : 1000 kg
 Manufacturing Date : May 24, 2012
 Retest Date : May 23, 2014
 Country of Origin : JAPAN

Manufacturing Site : Head Plant
 Address : 85-1, Maruyama, Akinokami, Seto-cho, Naruto, Tokushima 771-0360, Japan

signature 
 Checked by Tomoko Nishi
 (Quality Control Manager)
 Date : 



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Item	Specification	Analysis Result	Test Method
Description	Meets tests	Meets tests	J.P.
Identification	Meets test	Meets test	J.P.
Alkali and Soluble salts			
Alkali	Meets test	Meets test	J.P.
Soluble salts	10 mg max.	6.0 mg	
Carbonate	Meets test	Meets test	J.P.
Heavy metals	40 ppm max.	40 ppm max.	J.P.
Iron	500 ppm max.	500 ppm max.	J.P.
Calcium oxide	1.5 % max.	0.3 %	J.P.
Arsenic	10 ppm max.	10 ppm max.	J.P.
Acid-insoluble substances	2.0 mg max.	0.9 mg	J.P.
Fluoride	0.08 % max.	0.01 % max.	In-house
Loss on ignition	10 % max.	1.0 %	J.P.
Assay (after ignition)	96.0 ~ 101.0 %	98.6 %	J.P.
Volume test	30 mL/5g max.	15 mL/5g	J.P.
Our test method of the above items & specifications are in accordance with J.P. XVI			
Additional requests			
Average particle size	20 ~ 70 μm	50 μm	In-house
Conclusion : PASS			

Lot No. :
 Quantity : 1000 kg
 Manufacturing Date : January 6, 2013
 Retest Date : January 5, 2014
 Country of Origin : JAPAN

Manufacturing Site : Head Plant
 Address : 85-1, Maruyama, Akinokami, Seto-cho, Naruto, Tokushima 771-0360, Japan

signature 
 Checked by Tomoko Nishi
 (Quality Control Division)
 Date : Dec. 9, 2013.