



Giles Chemical, a division of Premier Magnesia, LLC.  
102 Commerce Street Waynesville, NC 28786  
Phone: 828-452-4784 Fax: 828-452-4786  
Tech Certificate of Analysis

Release Date: 4/6/2018  
CUSTOMER :  
CUST. REF: SHIP DATE:  
PRODUCT: Activated Charcoal & Hawaiian Black Lava Salt TRAILER NUMBER:  
SHELF LIFE: 3 Years BILL OF LADING #:  
LOT NUMBER: 18096 PO NUMBER #:  
CARRIER: MANUFACTURED:  
CUST. CONTACT: EXPIRATION:

I certify that this material meets all the requirements of the Giles Chemical sales specifications. Periodic testing has shown the samples to be consistently free of volatile organic impurities. Giles Chemical magnesium sulfate is manufactured under the guidelines of Current Good Manufacturing Practices (cGMP).

**73% EPSOM SALT, Magnesium Sulfate - Heptahydrate, Tech Grade, 25% Salt TFC**  
(Contains  $\leq 1\%$  Fragrance and may contain trace amounts of proprietary additives)

Epsom Salt				Salt, TFC (RI17220005)/RI17221002	
TEST	LOWER	UPPER	TEST RESULT	PARAMETERS	RESULTS
Appearance	~~	~~	Clear	Appearance	Clear Crystals
Limit of Chloride	~~	140 ppm	Pass	Calcium&Magnesium (as Calcium)	483 ppm
Limit of Iron	~~	20 ppm	Pass	Calcium Sulfate	0.147%
Selenium	~~	30 ppm	Pass	Copper	0 ppm
Heavy Metals (as Pb)	~~	10 ppm	Pass	Iron - Free	0.1 ppm
pH (5% Solution)	5.0	9.2	Pass	Arsenic	< 1.0 ppm
Loss on Ignition	40.0	52.0	Pass	Heavy Metals (as Pb)	< 2.0 ppm
Assay, % MgSO <sub>4</sub> (Dry Basis)	99.0	100.5	Pass	Sodium Chloride	99.82
% MgSO <sub>4</sub> (As is Basis)	47.52	60.3	Pass	Bulk Density	79.0 lb/ft <sup>3</sup>
ID, Magnesium, Sulfate	~~	~~	Present	--	--

CONTACT:

Quality Assurance Laboratory  
Brent Lance - Chemist

ANALYST:

SIGNATURE ON FILE

